

Protein Workflow Solutions

Protein purification & analysis products for life science research

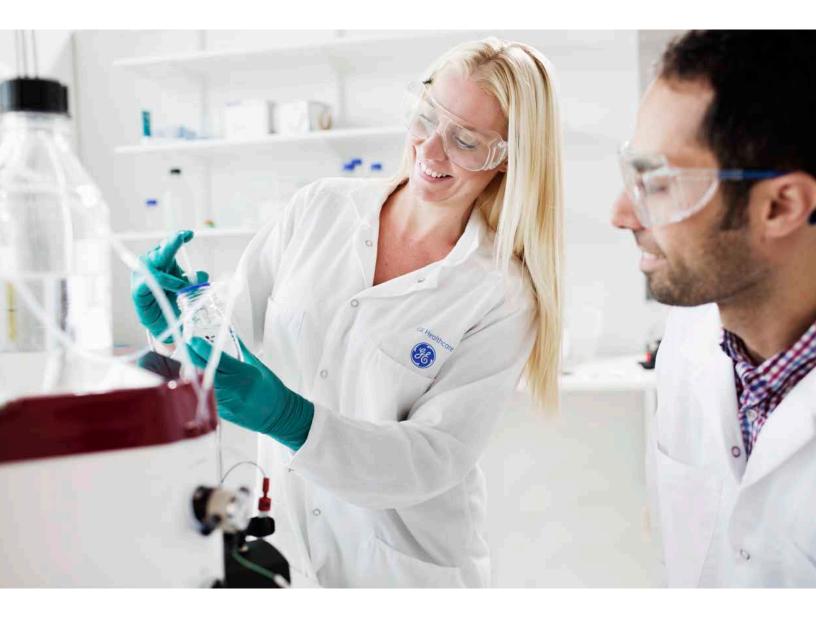


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FF - Fast Flow: HP - High Performance	

 $\mathsf{FF}=\mathsf{Fast}\;\mathsf{Flow};\;\mathsf{HP}=\mathsf{High}\;\mathsf{Performance}$

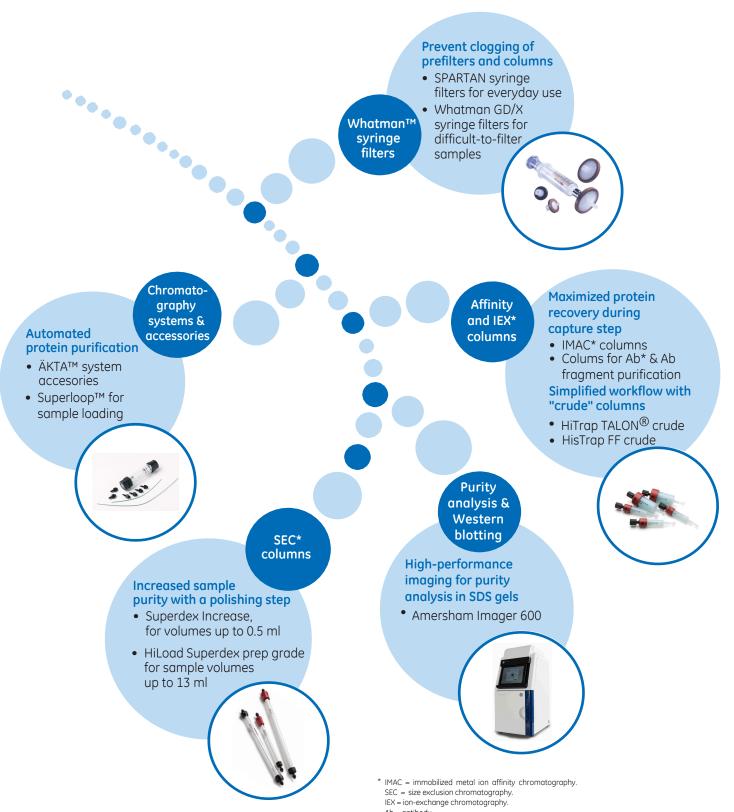
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Looking for more protein purification resources?Visit www.fishersci.com/gehc.

Protein purification workflow solutions.



Ab = antibody.

Whatman filters and accessories for the lab.

				0 PH 20 0 pH 1-14 a 0 c T 2	HLET HE POINT	
SPARTAN syringe filters	Mini Uni-Prep syringeless filters	Benchk paper	ote protection p	oH papers	Vacu-Guard pu protection filter	
Description			Products	Dimension	Cat. No. Q	ty/pack
resistant, hydrophilic, lo	pplication requiring a chemic w protein-binding membrane		SPARTAN HPLC - certified syringe filters, Regenerated cellulose (RC) Mini Uni-Prep	30 mm, 0.2 μm 30 mm, 0.45 μm 0.2 μm	09-302-151 09-302-154 09-927-65	500 500 100
	geless filters r way to remove particulates epared for HPLC/UHPLC analy	/sis	syringeless filters, PES, Translucent housing	0.2 μm 0.45 μm	09-927-65 09-923-30	100
Benchkote bench p	rotection papers		Benchkote	460 x 570 mm	12-007-180	50
	bsorbent Whatman paper pills and protects the working er and more absorbent	g surface	Benchkote Plus	460 mm x 50 m 500 x 600 mm 600 mm x 50 m	12-007-182A 12-007-183A 12-007-183B	1 reel 50 1 reel
	ters conomy for filtration of sample	es up	Puradisc syringe filters, PES	25 mm, 0.2 μm 25 mm, 0.45 μm	05-713-389 05-713-390	200 200
to 100 ml. •Pigment-free polypropy •Standard inlet and outle	0		Puradisc syringe filters, PVDF	25 mm, 0.2 μm 25 mm, 0.45 μm	09-302-117 09-302-118	200 200
•Excellent for difficult to	inge filters filter samples that are heavily	y laden	Whatman GD/X syringe filters, PES	25 mm, 0.2 μm 25 mm, 0.45 μm	09-927-32C 09-927-32D	150 150
	ughput: Volume of sample filte greater than conventional fil		Whatman GD/X syringe filters, RC	25 mm, 0.2 μm 25 mm, 0.45 μm	05-713-931 05-713-929	150 150
	ind test papers for the rapid		Colour Bonded, 0.0 14.0 range	to 6 x 80 mm	09-876-17	100 strips
determination of pH values in many applications			Standard Full Range Reel, 1.0 to 14.0 ran		09-875-70	1
			Standard Narrow Range, Reel, 4.0 to 7 range	7 mm x 5 m 7.0	09-875-72	1
Pump protection fil	ters		Vacu-Guard	50 mm	09-744-75	10
	systems from aqueous aeros abranes retain 99.99% or airb					

particles > 0.1 µm

* For more product and pack size information plus additional products, please visit www.fishersci.com/gehc.

Desalting and sample concentration.

Vivaspin sample concentrators

Vivapsin sample concentrators offer up to 30-fold concentration of the sample with recovery of the target molecule typically exceeding 95%. The entire process is performed in a single tube with an upper compartment containing sample and a lower compartment separated by a semipermeable membrane with a molecular weight cutoff (MWCO) selected by the user.

- One-step sample concentration in a single tube
- Patented dead-stop technology
- Vertical polyethersulfone membrane



Figure 1. Vivaspin sample concentrators are designed for fast, nondenaturing concentration of biological samples by membrane ultrafiltration.

		MWCO value								
Volume range	Product	3 000	5 000	10 000	30 000	50 000	100 000			
100-500 µl	Vivaspin 500	45-001-559	45-001-560	45-001-561	45-001-562	45-001-563	45-001-564			
400 µl to 2 ml	Vivaspin 2	45-001-565	45-001-566	45-001-567	45-001-568	45-001-569	45-001-570			
2-6 ml	Vivaspin 6	45-001-571	45-001-572	45-001-573	45-001-573	45-001-575	45-001-576			
5-20 ml	Vivaspin 20	45-001-577	45-001-578	45-001-579	45-001-580	45-001-581	45-001-582			

Desalting and buffer exchange

Prepacked, single-use PD-10 desalting columns and 96-well filter PD plates for buffer exchange and cleanup of biological samples (e.g, proteins and carbohydrates).

- Convenient and rapid cleanup with high reproducibility
- High desalting capacity
- A wide range of applications including desalting, buffer exchange and the removal of low-molecular weight compounds



Figure 2. PD Desalting & buffer exchange products.`

Products	Quantity	Code number
PD-10 Desalting Columns	30 columns	45-000-148
PD SpinTrap G-25	50 columns	45-001-527
PD MultiTrap G-25	4 × 96-well plates	45-001-528
PD MiniTrap G-25	50 columns	45-001-529
PD MidiTrap G-25	50 columns	45-001-530
MiniSpin Adapter	10	45-002-004
MidiSpin Adapter	10	45-001-551
PD-10 Spin Adapter	10	45-001-552
PD MiniTrap G-10	50 columns	45-001-531

Products	Quantity	Code number
HiTrap Desalting columns	5 × 5 ml	45-000-252
HiTrap Desalting ¹ columns	100 × 5 ml	45-002-908
HiPrep 26/10 Desalting	1 × 53 ml	45-000-266
HiPrep 26/10 Desalting	4 × 53 ml	45-000-267

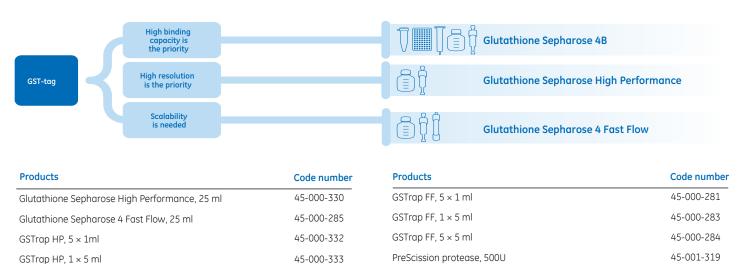
 $^1\,\mathrm{Special}$ pack size, please contact your local office to order.

Related products	Quantity	Code number
Collection plate 500 µl V-bottom	5 × 96-well plates	45-001-434

* For more product and pack size information plus additional products, please visit www.fishersci.com/gehc.

GST-tagged protein purification.

Glutathione S-transferase (GST) is a versatile means for expression, purification and detection of tagged proteins. GST-tagged proteins are purified by affinity chromatography utilizing immobilized glutathione, such as Glutathione Sepharose™ High Performance and Glutathione Sepharose 4 Fast Flow. Glutathione Sepharose HP is for high performance and high resolution purification of GST-tagged proteins. Glutathione Sepharose FF is for easy scale-up.



Thrombin, 500U

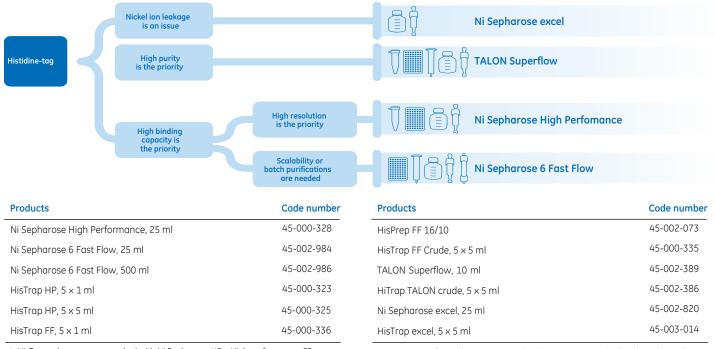
* GSTrap columns are prepacked with Glutathione Sepharose; HP = High performance; FF = Fast flow

GSTrap HP, 5 × 5 ml

Histidine-tagged protein purification.

We offer products for fast and convenient histidine-tagged recombinant protein purification using immobilized metal ion affinity chromatography (IMAC). Ni Sepharose media are precharged with nickel ions (Ni²⁺) and TALON[®] Superflow[™] medium is precharged with cobalt ions (Co²⁺). Ni Sepharose excel is designed for capture and purification of his-tagged proteins with minimized Ni-leakage and maximized protein recovery when stripping agents are present in the sample.

45-000-334

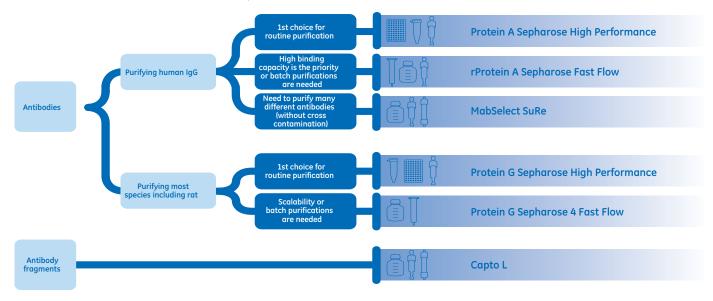


 HisTrap columns are prepacked with Ni Sepharose; HP = High performance; FF = Fast flow. * HisPrep FF 16/10 and HisTrap FF Crude columns are prepacked with precharged Ni Sepharose 6 Fast Flow.

45-001-320

Antibody purification.

We offer tools for the purification of monoclonal (MAbs) and polyclonal antibodies from different sources. The basis for antibody affinity purification is the high affinity and specificity of protein G and protein A for the Fc region of IgG from a variety of species. We offer chromatography media with protein G and protein A immobilized to several different matrices resulting in an excellent means of isolating IgG and IgG subclasses from ascites, cell culture supernatants, and serum.



Products	Code number	Products	Code number
HiTrap Protein A HP, 5 × 1 ml	45-000-049	HiTrap rProtein A FF, 2 × 1 ml	45-000-263
HiTrap Protein A HP, 5 × 5 ml	45-000-052	HiTrap rProtein A FF, 1 × 5 ml	45-000-264
Protein A HP SpinTrap columns, Pack of 16	45-001-483	HiTrap rProtein A FF 5 × 5 ml	45-000-265
Protein A HP MultiTrap plates, Pack of 4	45-001-484	rProtein A GraviTrap columns, 10 × 1 ml	45-002-800
HiTrap Protein G HP, 5 × 1 ml	45-000-053	rProtein A Sepharose 4 FF, 5 ml	45-002-971
HiTrap Protein G HP, 5 × 5 ml	45-000-056	rProtein A Sepharose 4 FF, 25 ml	45-002-972
Protein G HP SpinTrap columns, Pack of 16	45-001-485	HiTrap MabSelect SuRe, 1 × 5 ml	45-000-009
Protein G HP MultiTrap plates, Pack of 4	45-001-486	HiTrap MabSelect SuRe, 5 x 1 ml	45-000-008
Protein G Sepharose 4 FF, 25 ml	45-000-117	Capto L, 5ml	45-002-603
HiTrap rProtein A FF, 5 × 1 ml	45-000-262	Capto L, 25ml	45-002-601

* For more product and pack size information plus additional products, please visit www.fishersci.com/gehc.

GE format guide

Type of purification	Man	Manual purification			Manual or system purification				System purification			
Format		Spin columns		96-well plates	Ţ	Gravity flow columns		Bottles of chromatography media (resins)	ĥ	Small-column cartridges	Ĵ	Other columns
Format name		SpinTrap		MultiTrap		GraviTrap, MiniTrap, MidiTrap, PD10		Lab pack		HiTrap	_	HiScreen™, HiPrep, HiLoad, RESOURCE™, Tricorn™, and Precision
Use		Screening and quick desalting of small sample quantities using a centrifuge		High-throughput screening and small scale purification using centrifuge or vacuum equipmer	nt	Simple one-step purification of proteins or sample desalting without t need for equipmer	he	Batch purification and self-packing	_	Easy to use with a syringe, peristaltic pump, or a chromatography system	_	Larger scale or high performance applications

New generation columns for SEC.

Size-exclusion chromatography (SEC) is used for final polishing steps (Fig. 3). We offer three columns pre-packed with new generation Superdex Increase and Superose Increase resins (Table 1). These columns are used for small-scale preparative purification and analysis (sample volume 4 to 500 µl). Preparative grade columns and resins are also available for larger sample volumes (see next page).

Choose from three pre-packed column sizes to meet your different analysis and polishing needs.

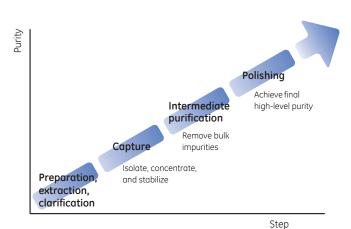


Figure 3. CIPP Purification Strategy. The capture phase reduces the amount of unwanted proteins and concentrates the target protein. Intermediate purification removes most contaminants that are closely related to the target protein. Polishing removes specified contaminants and unwanted forms of the target protein that may have been formed during isolation and purification.

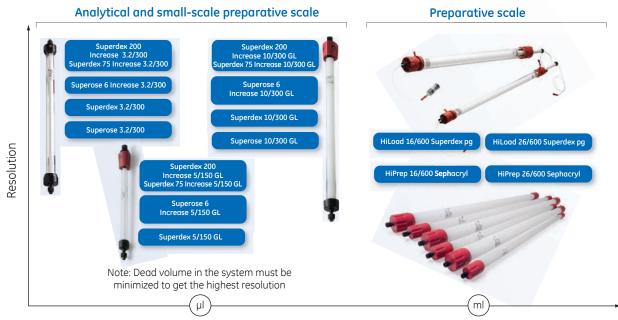
Type of protein	Product name	Characteristics and benefits
Recombinant tagged proteins For Mr 3-70 kDa	Superdex 75 Increase	Compared with original Superdex columns: Higher resolution Reduced runtimes with maintained resolution
MAbs and other antibodies For Mr 10-600 kDa	Superdex 200 Increase	Compared with original Superdex columns: Higher resolution using existing run times/flow rates Up to half the run time with maintained resolution columns
Large proteins and complexes For Mr 5-5000 kDa (wide fractionation range)	Superose 6 Increase	Compared with original Superose columns: Improved resolution and run time

Table 1. Superdex 75 Increase, Superdex 200 Increase, and Superose 6 Increase columns.

Ordering information

Dimensions (mm)	Superdex 75 Increase	Superdex 200 Increase	Superose 6 Increase
10 × 300	45-003-050	45-002-570	45-003-210
5 × 150	45-003-051	45-002-571	45-003-211
3.2 × 300	45-003-052	45-002-572	45-003-212

Broad range of SEC columns and resins.



Sample volume

Figure 4. Schematic overview of resolution and sample volume for prepacked, high-resolution SEC columns. For best performance and convenience use prepacked SEC columns.

Products	Code number	Products	Code number	
Superdex Peptide 3.2/300	45-000-652	Superose 6 Increase 3.2/300	45-003-212	
Superdex Peptide 10/300 GL	45-002-905	Superose 6 Increase 10/300 GL	45-003-210	
Superdex 75 Increase 3.2/300	45-003-052	Superose 6 Increase 5/150 GL	45-003-211	
Superdex 75 Increase 10/300 GL	45-003-050	HiPrep 16/60 Sephacryl S-100 HR	45-000-195	
Superdex 75 Increase 5/150 GL	45-003-051	HiPrep 26/60 Sephacryl S-100 HR	45-000-206	
Superdex 75 3.2/300*	45-000-651	HiPrep 16/60 Sephacryl S-200 HR	45-000-196	
Superdex 75 10/300 GL*	45-002-903	HiPrep 26/60 Sephacryl S-200 HR	45-000-207	
Superdex 75 5/150 GL*	45-002-907	HiPrep 16/60 Sephacryl S-300 HR	45-000-197	
Superdex 200 Increase 3.2/300	45-002-572	HiPrep 26/60 Sephacryl S-300 HR	45-000-208	
Superdex 200 Increase 10/300 GL	45-002-570	HiPrep 16/60 Sephacryl S-400 HR	45-002-990	
Superdex 200 Increase 5/150 GL	45-002-571	HiPrep 26/60 Sephacryl S-400 HR	45-002-991	
HiLoad 16/600 Superdex 30 pg	45-002-486	HiPrep 16/60 Sephacryl S-500 HR	45-002-992	
HiLoad 26/600 Superdex 30 pg	45-002-487	HiPrep 26/60 Sephacryl S-500 HR	45-002-993	
HiLoad 16/600 Superdex 75 pg	45-002-488	Superdex 30 prep grade, 150 ml	45-002-051	
HiLoad 26/600 Superdex 75 pg	45-002-489	Superdex 75 prep grade, 150 ml	45-002-037	
HiLoad 16/600 Superdex 200 pg	45-002-490	Superdex 200 prep grade, 150 ml	45-002-039	
HiLoad 26/600 Superdex 200 pg	45-002-491	Superose 12 prep grade, 125 ml	45-000-093	
Superose 12 3.2/300	45-000-654	Superose 6 prep grade, 125 ml	45-000-086	
Superose 12 10/300 GL	45-002-902	Sephacryl S-200 HR, 150 ml	45-002-059	

* Superdex 75 columns are to be replaced by new generation Superdex 75 Increase columns. The original Superdex 75 columns will be available until December 15, 2018 For more product and pack size information plus additional SEC resin products, please visit www.fishersci.com/gehc.

Western Blotting.

Blotting

Amersham Hybond™ PVDF blotting membranes

- High protein binding capacity results in high sensitivity.
- Suitable for Western blotting applications with stripping and reprobing.
- Amersham Hybond P recommended for chemiluminescence detection.
- Amersham Hybond LFP specifically optimized for fluorescence detection methods.



Imaging

Amersham Hyperfilm ECL detection film

- Sensitive film for the detection of chemiluminescent signals in Western blotting assays.
- Clear background for excellent contrast and band visibility.
- Publication-quality images.



Blotting paper	Quantity	Code number
Whatman 3MM blotting paper	46 × 57 cm	05-714-5
Amersham Western blotting membranes		
	1 roll, 30 cm × 4 m	45-004-001
Amersham Protran 0.45 µM Nitrocellulose	1 roll, 30 cm × 4 m	45-004-002
Amersham Protran Premium 0.2 µM Nitrocellulose	1 roll, 30 cm × 4 m	45-004-004
Amersham Protran Premium 0.45 µM Nitrocellulose	1 roll, 30 cm × 4 m	45-004-003
Amersham Hybond P 0.2 µM PVDF	1 roll, 26 cm × 4 m	45-004-021
Amersham Hybond P 0.45 µM PVDF	1 roll, 30 cm × 4 m	45-004-110
Amersham Hybond LFP 0.2 µM PVDF	1 roll, 25.4 cm × 4 m	45-004-095
Amersham ECL DualVue™ Markers – visible on the gel, blot, film, and imager	25 loadings	45-001-182
	25 loadings	45-001-182
Amersham ECL Rainbow™ Marker-Full range	250 µl	45-001-591
Amersham ECL Plex Fluorescent Rainbow Marker	120 µl	45-001-594
Secondary antibodies		
Amersham ECL Mouse IgG, HRP-Linked Whole Ab	1 ml	45-000-679
Amersham ECL Rabbit IgG, HRP-Linked Whole Ab	1 ml	45-000-682
Autoradiography film		
Amersham Hyperfilm ECL, 5 × 7"	50 sheets	45-001-504
Amersham Hyperfilm ECL, 18 × 24 cm	50 sheets	45-001-505
Amersham Hyperfilm ECL, 8 × 10"	50 sheets	45-001-507

* For more product and pack size information plus additional products, please visit www.fishersci.com/gehc.

Amersham ECL Western blotting detection reagents.

Amersham ECL Start	Quantity	Code number	
Amersham ECL start Western blotting detection reagent	200 ml for 2000 cm ² membrane	45-100-100	
Amersham ECL start Western blotting detection reagent	400 ml for 4000 cm² membrane	45-100-101	
Amersham ECL			
Amersham ECL Western blotting detection reagent	100 ml for 1000 cm² membrane	45-000-878	
Amersham ECL Western blotting detection reagent	200 ml for 2000 cm² membrane	45-000-885	
Amersham ECL Western blotting detection reagent	400 ml for 4000 cm² membrane	45-000-875	
Amersham ECL Western blotting detection reagent	600 ml for 6000 cm² membrane	45-001-160	
Amersham ECL Prime			
Amersham ECL Prime Western blotting detection reagent	100 ml for 1000 cm² membrane	45-002-401	
Amersham ECL Prime Western blotting detection reagent	300 ml for 3000 cm² membrane	45-010-090	
Amersham ECL Select			
Amersham ECL Select Western blotting detection reagent	100 ml for 1000 cm² membrane	45-000-999	
Amersham ECL Plex			
Amersham ECL Plex Combination Pack (includes Cy™ 3, Cy5, Amersham ECL Plex Marker, and Amersham Protran Premium)	For 1000 cm ² membrane	45-001-214	
Amersham ECL Plex Combination Pack	For 1000 cm² membrane	45-001-215	
(includes Cy3, Cy5, Amersham ECL Plex Marker, and Amersham Protran Premium)		45-001-215	
Premium) Amersham ECL Plex goat- α -mouse IgG-Cy2, Cy3, Cy5	For 1000 cm ² or 4000 cm ² membrane		
Amersham ECL Plex goat- $lpha$ -rabbit IgG-Cy2, Cy3, Cy5	For 1000 cm ² or 4000 cm ² membrane		

* For more product and pack size information plus additional products, please visit www.fishersci.com/gehc.

Selection guide outlining the differences between ECL reagents.

Product	Amersham ECL start	Amersham ECL	Amersham ECL Prime	Amersham ECL Select	Amersham ECL Plex™
	Detection of high to medium abundant proteinss	Reliable detection of high to medium abundant proteins	Quantitative analysis of high to low abundant proteins	Quantitative analysis of medium to very low abundant proteins	Multiplex protein analysis and quantitation of high to very low protein levels
Detection type	Chemiluminescence	Chemiluminescence	Chemiluminescence	Chemiluminescence	Fluorescence
Optimal membrane	Amersham Protran	Amersham Protran	Amersham Hybond P Amersham Protran	Amersham Hybond P Amersham Protran	Amersham Hybond LFP Amersham Protran Premium
Recommended detection	Amersham Hyperfilm (X-ray film) or ImageQuant™ LAS 500	Amersham Hyperfilm (X-ray film) or ImageQuant LAS 500	Amersham Imager 600 series X-ray film is also an option	Amersham Imager 600 series X-ray film is also an option	Typhoon™ FLA series Amersham Imager 600RGB
Signal duration	< 3 h	< 2 h	< 24 h	< 2 h	> 3 months
Typical applications	 Routine protein detection Highly expressed proteins e.g. housekeeping proteins Tagged proteins 	 Routine protein detection Protein confirmation Overexpressed proteins Tagged proteins 	 Protein quantitation Protein confirmation Protein regulation and expression analysis 	 Protein quantitation Protein confirmation Protein regulation and expression analysis 	 Multiplex analysis Normalization to housekeeping protein Analysis of post translational modification and isoforms
Typical results	10 µg 320 ng WB ERK ½: LOD 320 ng; DR	5 µg 40 ng	5 µg 20 ng	1.2 µg 5 ng WB ERK ½; LOD: 5 ng; DR: 2.4	10 µg 5 ng WB ERK ½ (Cy5 on FLA 9500); LOD 10 ng; DR: 3

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GE, GE monogram, ÄKTA, Amersham, Benchkote, Biacore, Capto, Cy, ECL, DualVue, GSTrap, GraviTrap, HiLoad, HiPrep, HiScreen, HiTrap, HisPrep, HisTrap, Hybond, Hyperfilm, ImageQuant, MabSelect SuRe, MidiTrap, MiniTrap, Mini Uni-Prep, MultiTrap, PreScission, Protran, Rainbow, RESOURCE, Sephacryl, Sephadex, Sepharose, SPARTAN, SpinTrap, Superdex, Superloop, Superose, Tricorn, Typhoon, UNICORN, Vivaspin, Whatman, and Whatman GD/X are trademarks of General Electric Company

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