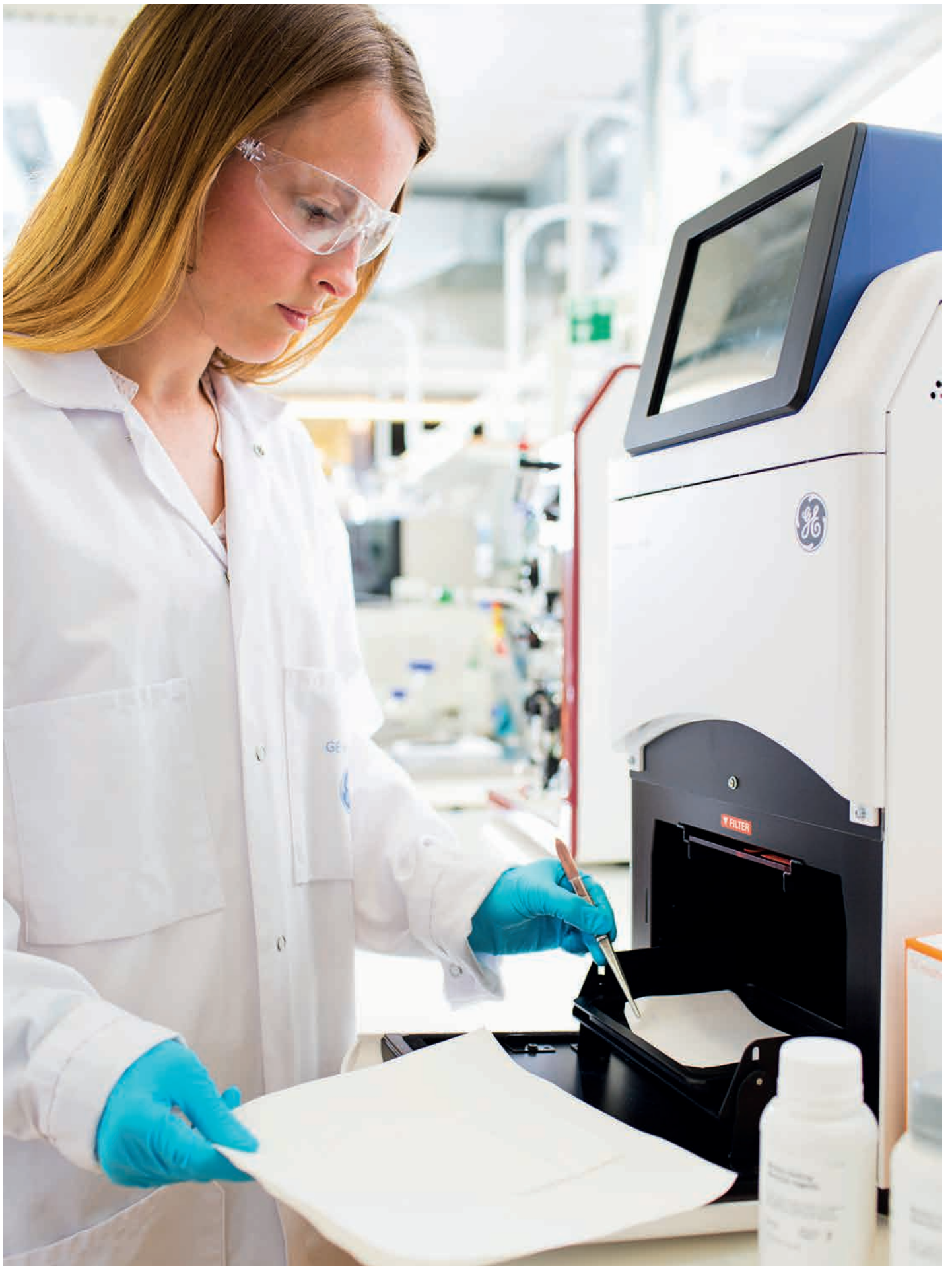


Amersham™ Western blotting membranes

Selection guide





Amersham Western blotting membranes

GE Healthcare Life Sciences offers a broad selection of nitrocellulose (NC) and polyvinylidene difluoride (PVDF) Western blotting membranes, with pore sizes ranging from 0.1 to 0.45 μm to suit your application requirements.

The main advantage of NC membranes is the low background, regardless of detection method used. The low background makes NC membranes well-suited for applications where X-ray film is used for detection. In general, NC membranes are not recommended for stripping and reprobing, as they become brittle and difficult to handle when dry. However, Amersham Protran Supported NC membranes have an incorporated polyester support web for improved mechanical strength, allowing for stripping and reprobing of the membrane.

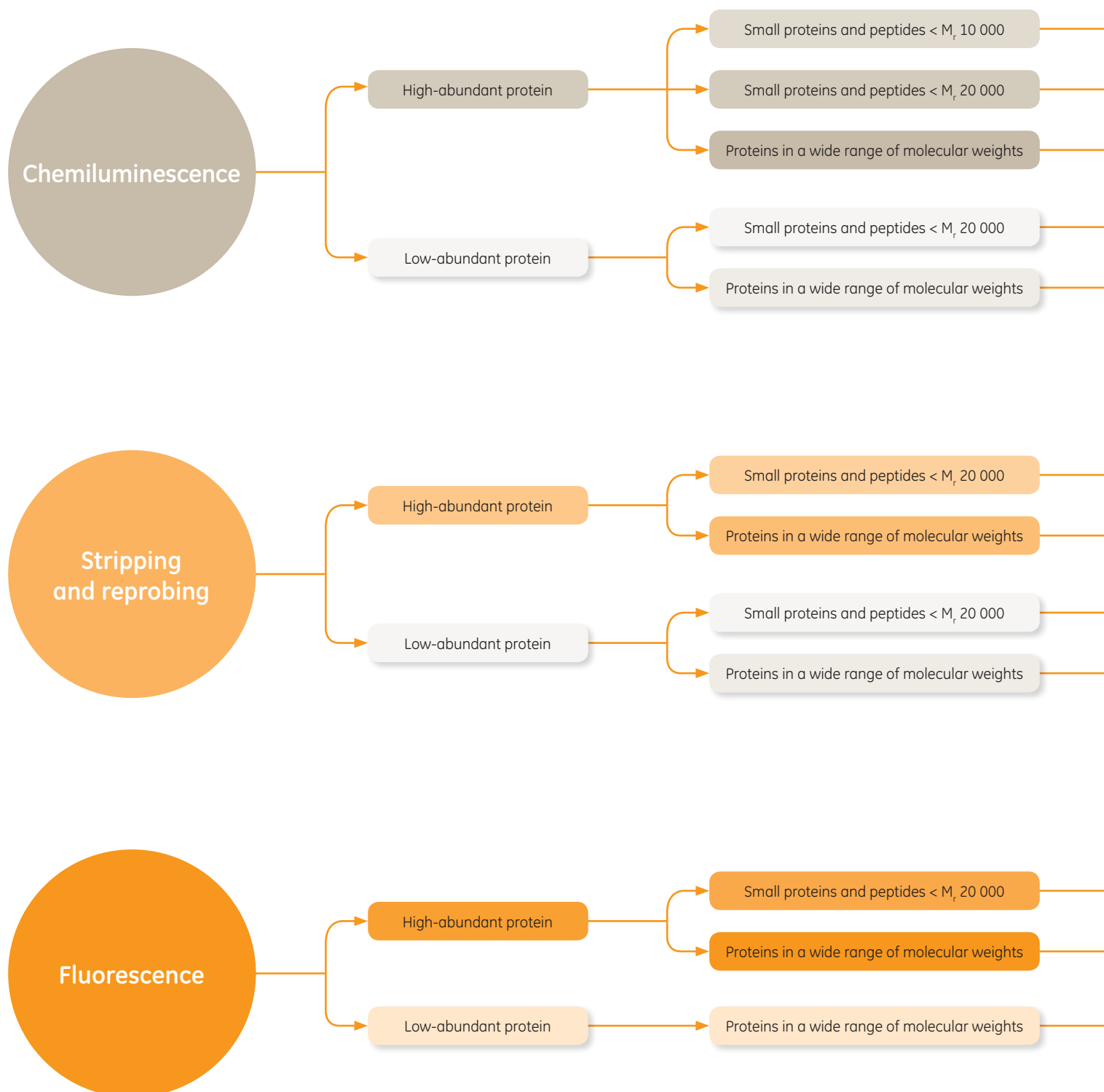
PVDF membranes have higher mechanical strength than NC membranes and, thus, are more suitable for Western blotting applications where stripping and reprobing is needed. In addition, PVDF membranes exhibit higher protein binding capacity, however, with a tendency for a higher background, compared with NC membranes. For good results, a CCD imager is recommended for signal detection.

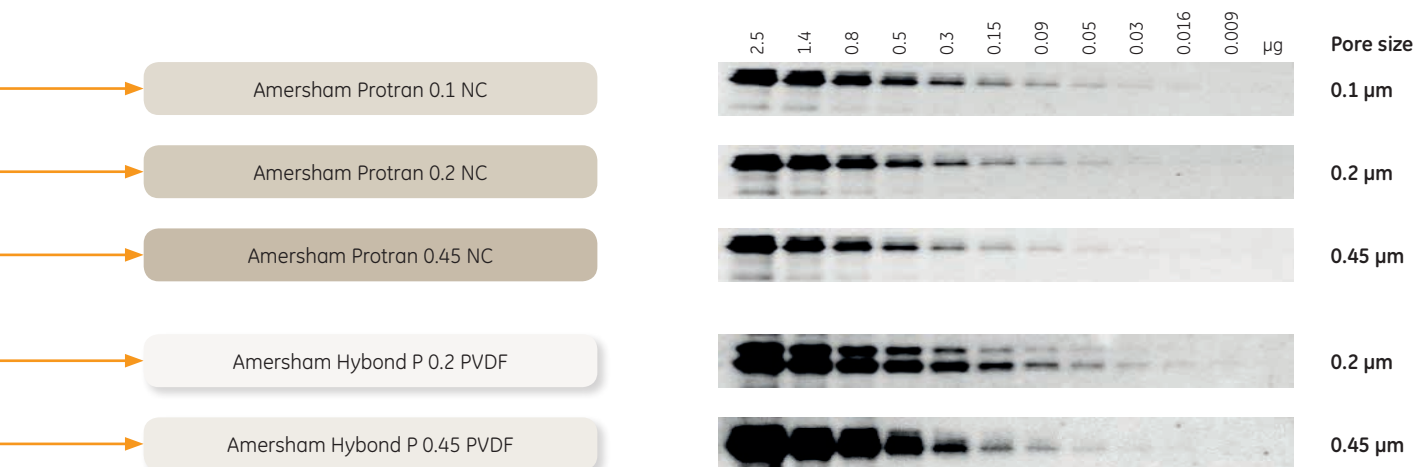
Amersham Western blotting membrane family includes:

- **Amersham Protran**, NC membranes with high affinity for proteins, great blocking ability, and compatibility with a range of detection methods
- **Amersham Protran Premium**, NC membranes with low background and high sensitivity and resolution, recommended for fluorescent detection systems
- **Amersham Protran Supported**, NC membranes supported by an inert polyester nonwoven material, giving the membranes exceptional handling characteristics that allows for stripping and reprobing of the membrane
- **Amersham Hybond™ P**, PVDF membranes with low background and high sensitivity and resolution, for all labeling and detection systems, but particularly recommended for chemiluminescence detection
- **Amersham Hybond LFP**, PVDF membranes specifically optimized for fluorescence detection methods
- **Amersham Hybond SEQ**, PVDF membranes specifically designed for protein sequencing applications and solid-phase amino acid analysis

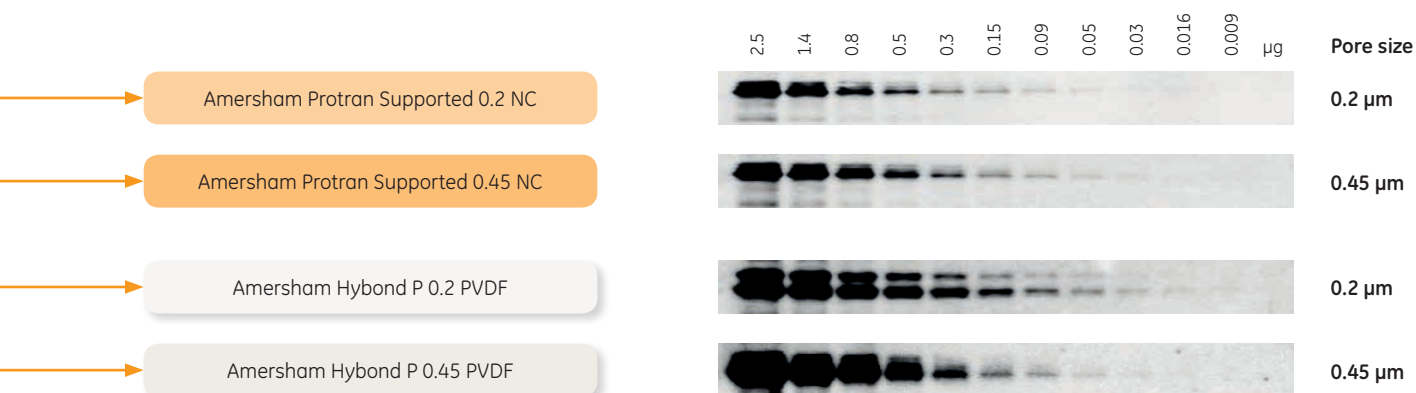
Selection guide— Amersham Western blotting membranes

GE Healthcare provides scientists with excellent membranes in a selection of rolls, sheets, and sandwiches.

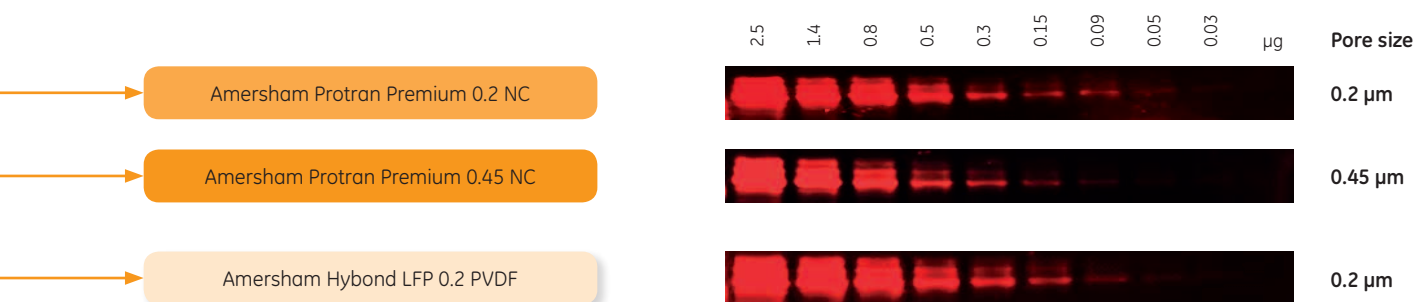




Comparison of Amersham Protran and Amersham Hybond P membranes.



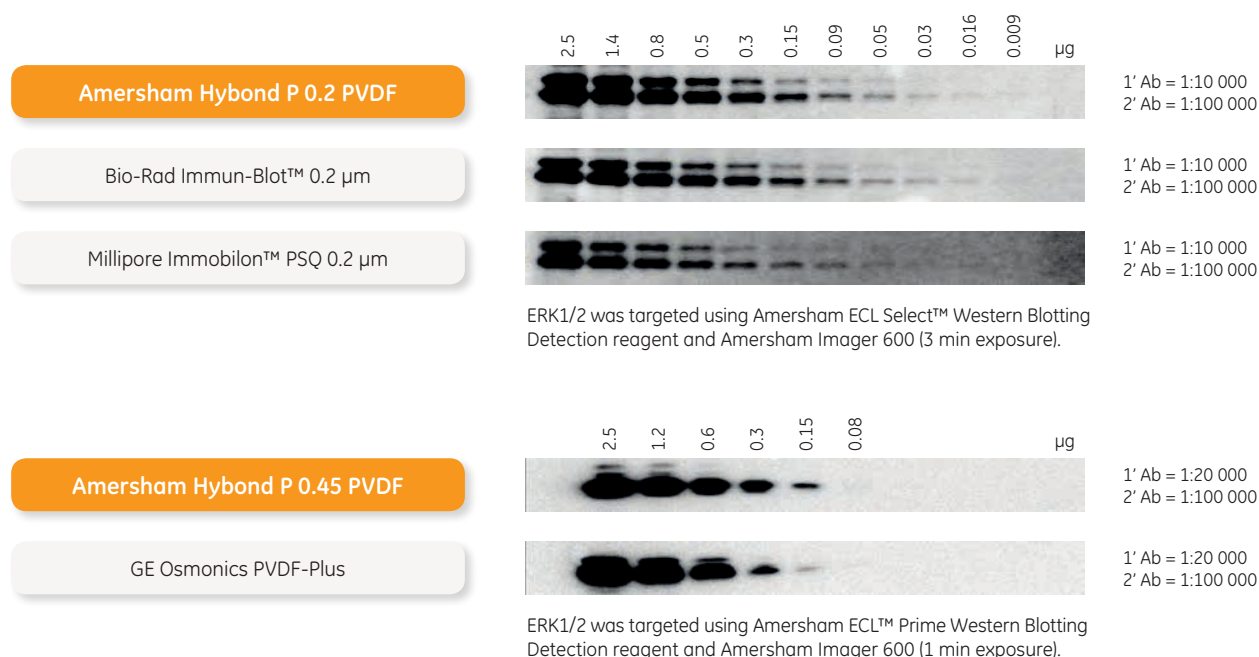
Comparison of Amersham Protran Supported and Amersham Hybond P membranes.



Comparison of Amersham Protran Premium and Amersham Hybond LFP membranes.

Benchmarking data— Amersham Hybond PVDF membranes

- *No compromise on sensitivity*
- *Maximized protein capture during transfers minimizes sample loss*
- *High protein binding capacity (over 200 µg/cm²) for sensitive signal detection*
- *High protein retention even after harsh washing steps*



Benchmarking of various PVDF membranes

To differentiate various PVDF membranes, a Western blotting model system was created for detection of ERK 1/2 in a serial dilution of NIH/3T3 cell lysate. Each experiment was performed in triplicates and representative data are presented. Membranes from GE Healthcare demonstrated equal or higher limit of detection compared with competitor membranes.

Ordering information

Nitrocellulose membranes

Product	Size	Quantity	Code number		
Amersham Protran			0.1 µm	0.2 µm	0.45 µm
	300 mm × 4 m	1 roll	10600000	10600001	10600002
	200 mm × 4 m	1 roll	10600005	10600006	10600007
	150 mm × 4 m	1 roll	10600010	10600011	10600012
	300 × 600 mm	5 sheets	10600031	10600032	10600033
	200 × 200 mm	25 sheets	10600045	10600043	10600041
	200 × 200 mm	10 sheets	10600046	10600044	10600042
	140 × 160 mm	25 sheets	10600064	10600063	10600062
	102 × 133 mm	10 sheets	10600126	10600125	10600124
	100 × 100 mm	25 sheets	10600076	10600074	10600072
	100 × 100 mm	10 sheets	10600077	10600075	10600073
	80 × 90 mm	25 sheets	10600095	10600094	10600093
Amersham Protran Supported			0.2 µm	0.45 µm	
	300 mm × 4 m	1 roll	10600015	10600016	
	200 mm × 4 m	1 roll	10600017	10600018	
	150 mm × 4 m	1 roll	10600019	10600020	
	300 × 600 mm	5 sheets	10600037	10600036	
	200 × 200 mm	25 sheets	10600053	10600051	
	200 × 200 mm	10 sheets	10600054	10600052	
	140 × 160 mm	25 sheets	10600068	10600067	
	102 × 133 mm	10 sheets	10600128	10600127	
	100 × 100 mm	25 sheets	10600084	10600082	
	100 × 100 mm	10 sheets	10600085	10600083	
	80 × 90 mm	25 sheets	10600099	10600098	
Amersham Protran Premium			0.2 µm	0.45 µm	
	300 mm × 4 m	1 roll	10600004	10600003	
	200 mm × 4 m	1 roll	10600009	10600008	
	150 mm × 4 m	1 roll	10600014	10600013	
	300 × 600 mm	5 sheets	10600035	10600034	
	200 × 200 mm	25 sheets	10600049	10600047	
	200 × 200 mm	10 sheets	10600050	10600048	
	140 × 160 mm	25 sheets	10600066	10600065	
	100 × 100 mm	25 sheets	10600080	10600078	
	100 × 100 mm	10 sheets	10600081	10600079	
	80 × 90 mm	25 sheets	10600097	10600096	

Polyvinylidene difluoride membranes

Amersham Hybond P			0.2 µm	0.45 µm
	300 mm × 4 m	1 roll	-	10600023
	260 mm × 4 m	1 roll	10600021	
	150 mm × 4 m	1 roll	-	10600029
	300 × 600 mm	5 sheets	-	10600038
	260 × 600 mm	5 sheets	10600039	
	200 × 200 mm	25 sheets	10600057	-
	200 × 200 mm	10 sheets	10600058	-
	140 × 160 mm	25 sheets	-	10600069
	100 × 100 mm	25 sheets	10600088	10600086
	100 × 100 mm	10 sheets	10600089	10600087
	80 × 90 mm	25 sheets	10600101	10600100

Polyvinylidene difluoride membranes

Product	Size	Quantity	Code number
Amersham Hybond LFP			0.2 µm
	254 mm × 4 m	1 roll	10600022
	254 × 600 mm	5 sheets	10600040
	200 × 200 mm	10 sheets	10600060
	100 × 100 mm	25 sheets	10600090
	100 × 100 mm	10 sheets	10600091
	80 × 90 mm	25 sheets	10600102
Amersham Hybond SEQ			0.2 µm
	260 mm × 4 m	1 roll	10600030
	200 × 200 mm	10 sheets	10600061
	100 × 100 mm	10 sheets	10600092

Precut membranes and filter papers

Product	Size	Quantity	Code number		
Amersham sandwiches			0.1 µm	0.2 µm	0.45 µm
Amersham Protran sandwiches	140 × 160 mm	10 sandwiches	10600105	10600104	10600103
	80 × 90 mm	10 sandwiches	10600116	10600115	10600114
Amersham Protran Supported sandwiches	140 × 160 mm	10 sandwiches	-	10600109	10600108
	80 × 90 mm	10 sandwiches	-	10600120	10600119
Amersham Protran Premium sandwiches	140 × 160 mm	10 sandwiches	-	10600107	10600106
	80 × 90 mm	10 sandwiches	-	10600118	10600117
Amersham Hybond P sandwiches	140 × 160 mm	10 sandwiches	-	-	10600110
	80 × 90 mm	10 sandwiches	-	10600122	10600121
Amersham Hybond LFP sandwiches	80 × 90 mm	10 sandwiches	-	10600123	-

The products presented in this brochure are available from GE Life Sciences distributors www.gelifesciences.com/distributors

For local office contact information, visit www.gelifesciences.com/contact

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