GE Healthcare
Life Sciences

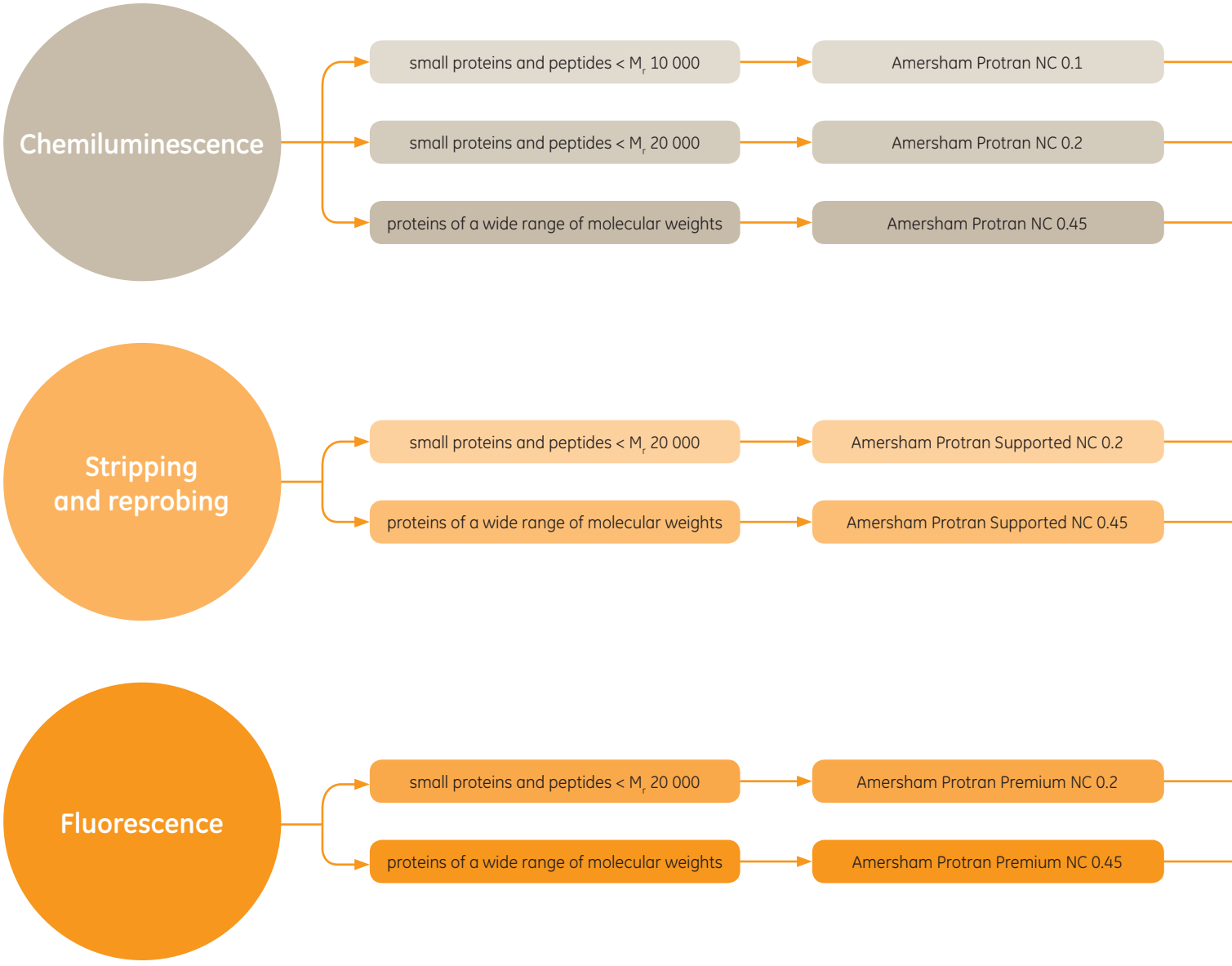
Amersham™ Nitrocellulose Western blotting membranes

Selection guide

Amersham Nitrocellulose Western blotting membranes

GE Healthcare Life Sciences offers an extensive line of 100% pure cellulose filter paper membranes manufactured entirely from high-quality cotton linter. The membranes are manufactured and tested specifically for chromatographic and blotting applications and contain no additives that can cause contamination during the transfer step. High purity gives the membranes the excellent wicking capability and uniform capillary action that is important for obtaining clean and even transfers during blotting.

The Amersham Protran™ nitrocellulose membranes are commonly used as matrix in Western blotting applications. The membranes exhibit high affinity for proteins, exceptional blocking ability, and are compatible with a vast variety of detection methods (e.g., chemiluminescence, fluorescence, chromogenic techniques). All blotting membranes are available as sheets suitable for the most popular gel and transfer cassettes, for convenient out-of-the-box usage with minimal sheet-to-sheet variation.



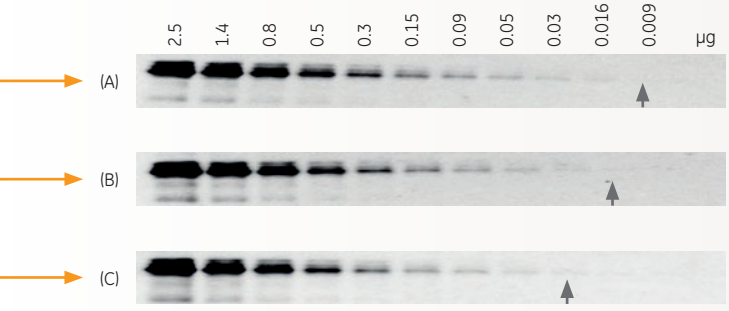
Two great brands join forces

The trusted Hybond™ and Whatman™ brands combine to give Amersham Western blotting membranes, offering sustained high quality and performance.

- Optimized for chemiluminescent and fluorescent detection
- Excellent protein binding capacity over a wide size range
- Get 30% more with the new pack sizes
- Physical and chemical composition remains the same

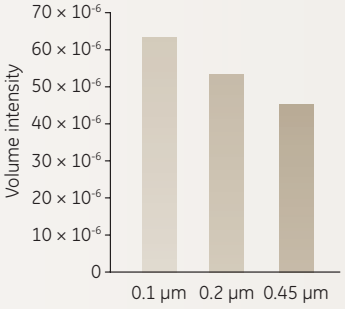
Migration guide

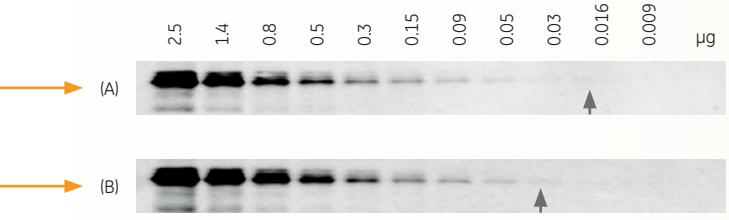
		New names
Whatman Protran BA79	→	Amersham Protran NC 0.1
Whatman Protran BA83	→	Amersham Protran NC 0.2
Whatman Protran BA85	→	Amersham Protran NC 0.45
Whatman Optitran BAS83	→	Amersham Protran Supported NC 0.2
Whatman Optitran BAS85	→	Amersham Protran Supported NC 0.45
Amersham Hybond ECL 0.2 µm	→	Amersham Protran Premium NC 0.2
Amersham Hybond ECL 0.45 µm	→	Amersham Protran Premium NC 0.45



Comparison of Amersham Protran NC membranes of pore sizes (A) 0.1 µm, (B) 0.2 µm, and (C) 0.45 µm.

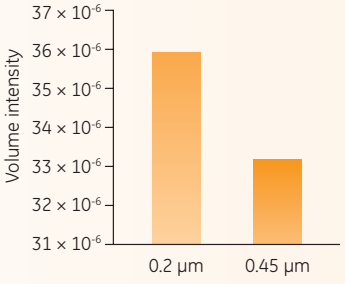
A Western blotting model experiment for detection of ERK1/2 in a dilution series of NIH/3T3 cell lysate was created. Limit of detection is indicated by the gray arrow. In addition, the signal intensity of the captured M_r 17 000 marker protein was monitored on each membrane. A clear correlation between membrane pore size and signal intensity of the protein band could be seen.

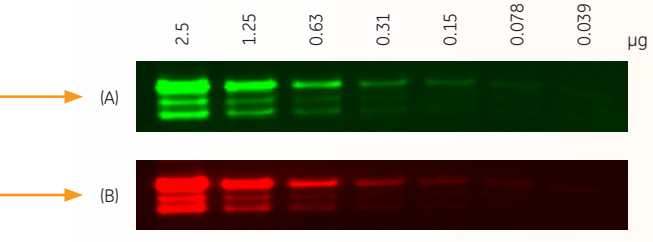




Comparison of Amersham Protran Supported NC membranes of pore sizes (A) 0.2 µm and (B) 0.45 µm.

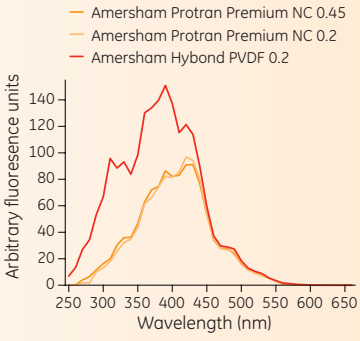
Membranes were subjected to the same Western blotting model experiment as described for Amersham Protran membranes. Limit of detection is indicated by the gray arrow. The signal intensity of the M_r 17 000 marker protein captured on the membranes indicates that the supported membrane with smaller poresize are best suitable for detection of proteins in the lower molecular weight range.





Comparison of Amersham Protran Premium NC membranes of pore sizes (A) 0.2 µm and (B) 0.45 µm.

Cy™3- conjugated Amersham ECL Plex™ Western Blotting system was used for detection of ERK1/2 in NIH/3T3 cell lysate. Autoflorescence profiles of Amersham Protran Premium NC 0.2, Amersham Protran Premium NC 0.45, and Amersham Hybond PVDF 0.2 membranes were monitored at the wavelengths for Cy3 and Cy5. The PVDF membrane exhibit much higher autofluorescence compared with the nitrocellulose membranes.



Product	Code number			Quantity		
	0.1 µm	0.2 µm	0.45 µm			
Amersham Protran NC	10-6000-00	10-6000-01	10-6000-02	1 roll	300 mm × 4 m	30% more
	10-6000-05	10-6000-06	10-6000-07	1 roll	200 mm × 4 m	30% more
New products	10-6000-10	10-6000-11	10-6000-12	1 roll	150 mm × 4 m	30% more
	10-6000-31	10-6000-32	10-6000-33	5 sheets	300 × 600 mm	
	10-6000-45	10-6000-43	10-6000-41	25 sheets	200 × 200 mm	
	10-6000-46	10-6000-44	10-6000-42	10 sheets	200 × 200 mm	50% more
	10-6000-64	10-6000-63	10-6000-62	25 sheets	140 × 160 mm	
	10-6000-76	10-6000-74	10-6000-72	25 sheets	100 × 100 mm	
	10-6000-77	10-6000-75	10-6000-73	10 sheets	100 × 100 mm	
	10-6000-95	10-6000-94	10-6000-93	25 sheets	80 × 90 mm	
Amersham Protran Sandwich NC (Precut membrane and filter papers)	10-6001-05	10-6001-04	10-6001-03	10 + 20	140 × 160 mm	
	10-6001-16	10-6001-15	10-6001-14	10 + 20	80 × 90 mm	
Amersham Protran Supported NC		10-6000-15	10-6000-16	1 roll	300 mm × 4 m	30% more
		10-6000-17	10-6000-18	1 roll	200 mm × 4 m	30% more
New products		10-6000-19	10-6000-20	1 roll	150 mm × 4 m	
		10-6000-36	10-6000-37	5 sheets	300 × 600 mm	
		10-6000-54	10-6000-52	25 sheets	200 × 200 mm	
		10-6000-53	10-6000-51	25 sheets	200 × 200 mm	
		10-6000-68	10-6000-67	25 sheets	140 × 160 mm	
		10-6000-83	10-6000-85	10 sheets	100 × 100 mm	
		10-6000-82	10-6000-84	25 sheets	100 × 100 mm	
		10-6000-99	10-6000-98	25 sheets	80 × 90 mm	
Amersham Protran Supported Sandwich NC (Precut membrane and filter papers)		10-6001-09	10-6001-08	10 + 20	140 × 160 mm	
		10-6001-20	10-6001-19	10 + 20	80 × 90 mm	
Amersham Protran Premium NC		10-6000-04	10-6000-03	1 roll	300 mm × 4 m	30% more
		10-6000-09	10-6000-08	1 roll	200 mm × 4 m	30% more
New products		10-6000-14	10-6000-13	1 roll	150 mm × 4 m	
		10-6000-35	10-6000-34	5 sheets	300 × 600 mm	
		10-6000-50	10-6000-48	25 sheets	200 × 200 mm	
		10-6000-49	10-6000-47	10 sheets	200 × 200 mm	
		10-6000-66	10-6000-65	25 sheets	140 × 160 mm	
		10-6000-81	10-6000-79	25 sheets	100 × 100 mm	
		10-6000-80	10-6000-78	10 sheets	100 × 100 mm	
		10-6000-97	10-6000-96	25 sheets	80 × 90 mm	
Amersham Protran Premium Sandwich NC (Precut membrane and filter papers)		10-6001-07	10-6001-06	10 + 20	140 × 160 mm	
		10-6001-18	10-6001-17	10 + 20	80 × 90 mm	

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

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imagination at work

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