

SuperNOVA

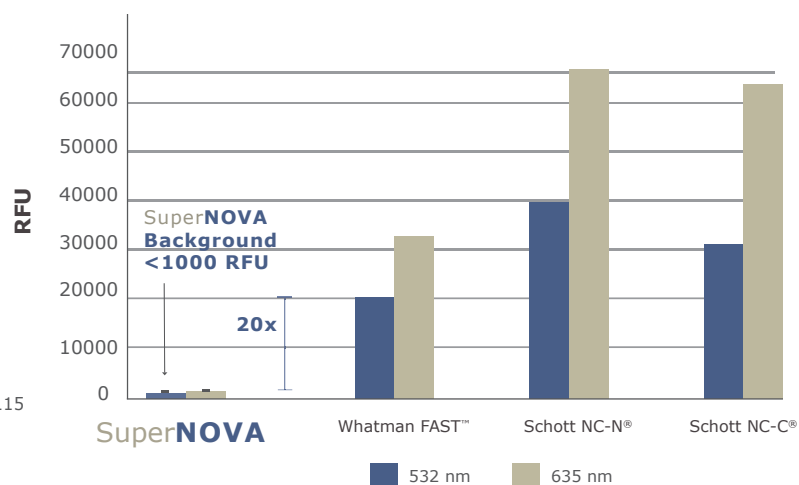
Porous Nitrocellulose Film Slides Designed For High Protein Binding Capacity, Fluorescence Based Protein Arrays.



SuperNOVA BACKGROUND IS 20 – 60 TIMES LOWER THAN COMPETING POROUS NITROCELLULOSE FILM SLIDES

- Low Fluorescence Background, stable over time
- High Protein Binding
- High Signal-to-Noise
- Broad Dynamic Range

- 532 nm data obtained at 33% laser power, 600 PMT; 635nm data obtained at 100% laser power, 850 PMT
- Whatman FAST Lot #8018023; Schott NC-N Lot #0900755; Schott NC-C Lot #1000115
- N = 3 for SuperNOVA, N = 2 for other slide types

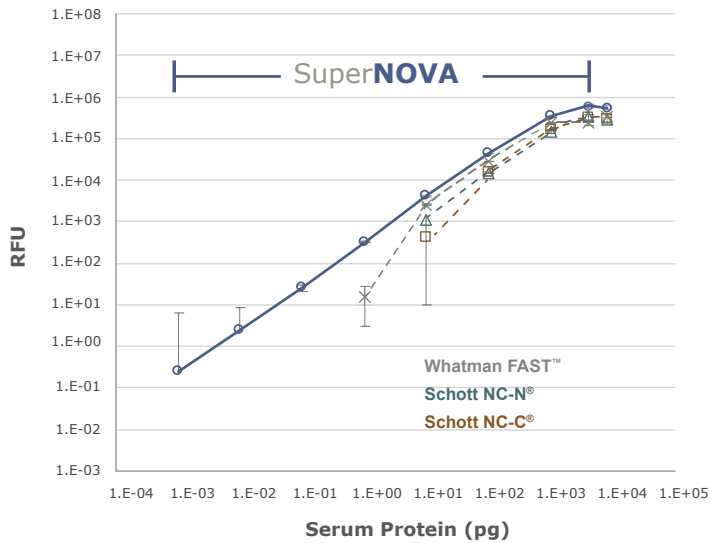


PROTEIN MICROARRAY FILM SLIDE SELECTION GUIDE

Property	ONCYTE® Brand Porous Nitrocellulose Thin Film Slides			Non-porous Nitrocellulose film exclusively from Grace Bio-Labs
	AVID	NOVA	SuperNOVA	PATH®
Binding capacity	•••••	••	•••••	•
Fluorescence background	•••••	•••	••	•
Dynamic Range (log scale fluorescence)	5-6	5-6	7+	4-5
Low lot-to-lot variation	•••	•••	•••	•••
Hydrophobicity ¹ (may affect spot size)	•	•	••	••
Applications	Best for any application requiring high binding capacity and colorimetric detection.	Reduced fluorescence background with lower binding capacity than AVID. Good signal-to-noise ratio for fluorescence detection.	Second generation NOVA , lowest fluorescence background, high binding capacity. Best for fluorescence detection and large dynamic range.	Lowest fluorescence background, lower binding capacity, reduced dynamic range.

1. More hydrophobic surfaces may result in reduced spot diameter, depending on the spotting buffer composition. Results may vary based on buffers, sample preparation, spotting and scanning instruments. See our Oncyte® user guide for full discussion.

DYNAMIC RANGE FOR SuperNOVA IS SUPERIOR TO COMPETING POROUS FILMS

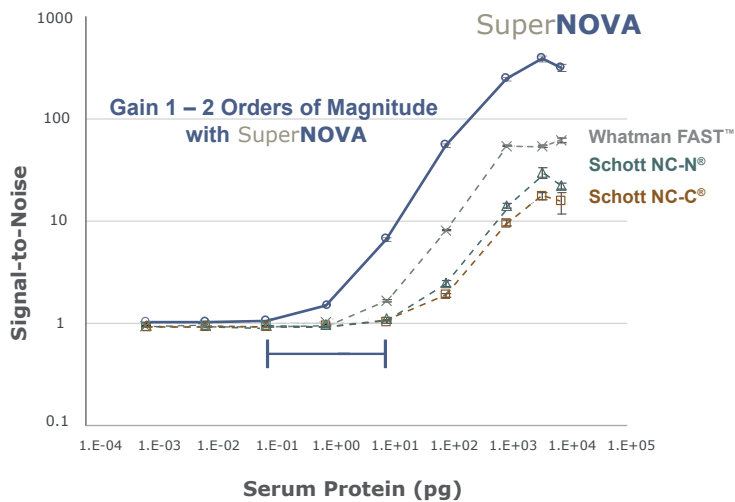


- SuperNOVA assay dynamic range exceeds 7 orders of magnitude compared with 3 to 4 for competitors.

- SuperNOVA dynamic range is linear over 6 orders of magnitude ($R^2 = 0.999$)

Normal rabbit serum spotted, blocked, and assay with 1:5000 dilution of goat anti-rabbit IgG
N = 4 film slides per slide type, 20 technical replicates per slide
Data are normalized, background-subtracted fluorescence intensities collected at 532 nm

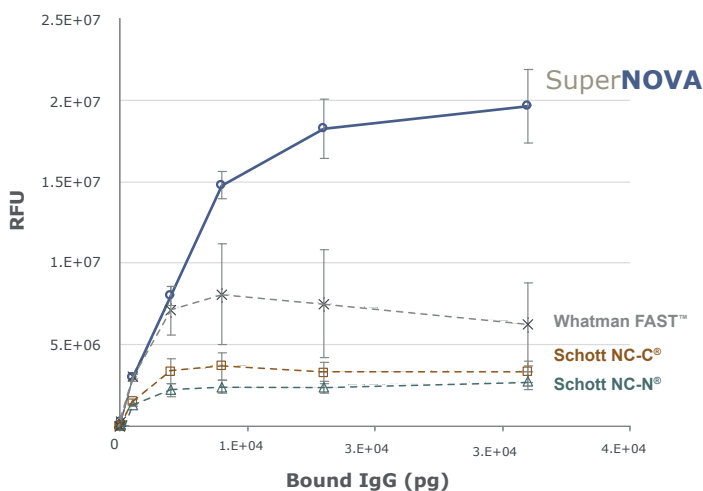
SIGNAL-TO-NOISE FOR SuperNOVA IS SUPERIOR TO COMPETING POROUS FILMS



	Spot Diameter	S/N
SuperNOVA	170 μm	51.3
Schott NC-N®	300 μm	1.5
Schott NC-C®	250 μm	2.3
Whatman FAST™	160 μm	2.1

- Spotting Concentration 5 ug/ml Cy3-IgG
- 532 nm data obtained at 33% laser power, 600 PMT
- GenePix Brightness / Contrast: 71 / 75 for all images

PROTEIN BINDING CAPACITY FOR SuperNOVA FILM SLIDES IS THE HIGHEST



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For more information
please visit www.gracebio.com
call us at 1800-813-7339
or email us at service@gracebio.com