

PGP9.5 Monoclonal Antibody (31A3)

Product Details	
Size	200 µg
Species Reactivity	Human, Mouse, Rabbit, Rat
Published Species	Rat
Host/Isotope	Mouse / IgG1
Class	Monoclonal
Type	Antibody
Clone	31A3
Conjugate	Unconjugated
Immunogen	Native protein, from brain.
Form	Liquid
Concentration	1 mg/mL
Purification	Protein A
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage Conditions	4°C or -20°C if preferred
RRID	AB_935198

Applications	Tested	Dilution	Published
Western Blot (WB)	✓	1 µg/mL	4 Publications
ELISA (ELISA)	✓	1:500-1:2000	
Immunocytochemistry (ICC)	✓	5 µg/mL	
Immunofluorescence (IF)	✓	5 µg/mL	
Immunohistochemistry (Paraffin) (IHC (P))	✓	1:100 - 1:400	

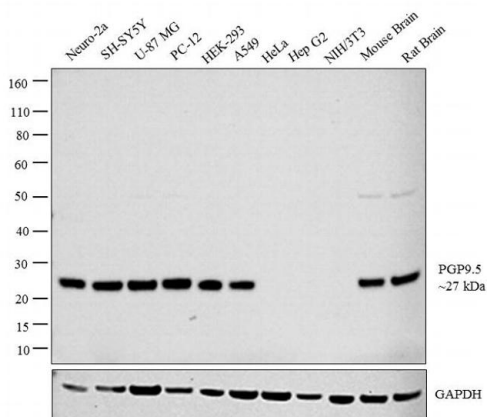
Product Specific Information

This antibody does not react with guinea pig.

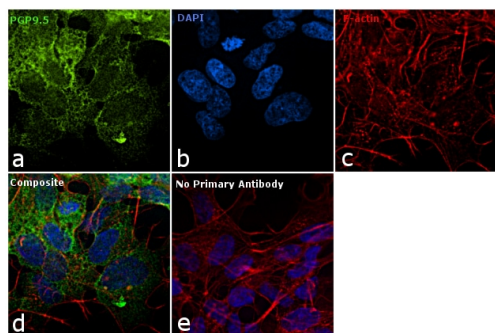
This antibody is suitable for use on paraffin-embedded tissue sections, with a recommend fixation in 95% ethanol/5% acetic acid for 2-3 hours prior to paraffin-embedding. Specimens which have not been fixed in acetic acid/alcohol will likely require pretreatment using the microwave-citrate buffer method.

PGP9.5 Antibody (MA1-83428)

Antibody specificity was demonstrated by detection of differential basal expression of the target across cell models owing to their inherent genetic constitution. Expression of PGP9.5 was observed in all the cell lines and tissues tested except for HeLa, HepG2 and NIH/3T3 using PGP9.5 Mouse Monoclonal Antibody (Product # MA1-83428) in Western Blot. Relative expression validation info.



Product Images For PGP9.5 Monoclonal Antibody (31A3)

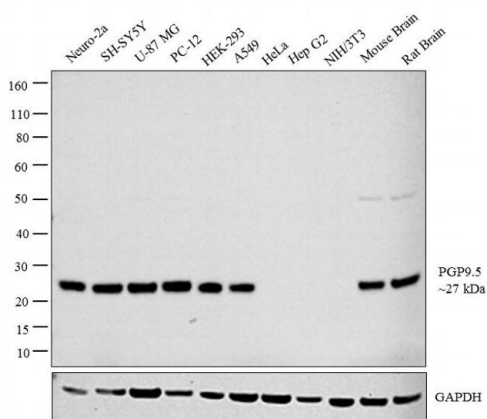


PGP9.5 Antibody (MA1-83428) in IF

Immunofluorescence analysis of PGP9.5 was performed using 70% confluent log phase SH-SY5Y cells. The cells were fixed with 4% paraformaldehyde for 10 minutes, permeabilized with 0.1% Triton™ X-100 for 10 minutes, and blocked with 1% BSA for 1 hour at room temperature. The cells were labeled with PGP9.5 Monoclonal Antibody (31A3) (Product # MA1-83428) at 5 µg/mL in 0.1% BSA and incubated overnight at 4 degree and then labeled with Goat anti-Mouse IgG (H+L) Superclonal™ Secondary Antibody, Alexa Fluor® 488 conjugate (Product # A28175) at a dilution of 1:2000 for 45 minutes at room temperature (Panel a: green). Nuclei (Panel b: blue) were stained with SlowFade® Gold Antifade Mountant with DAPI (Product # S36938). F-actin (Panel c: red) was stained with Rhodamine Phalloidin (Product # R415, 1:300). Panel d represents the merged image showing cytoplasmic localization. Panel e represents control cells with no primary antibody to assess background. The images were captured at 60X magnification.

PGP9.5 Antibody (MA1-83428) in WB

Western blot analysis was performed on whole cell extracts (30 µg lysate) of Neuro-2a (Lane 1), SH-SY5Y (Lane 2), U-87 MG (Lane 3), PC-12 (Lane 4), HEK-293 (Lane 5), A549 (Lane 6), HeLa (Lane 7), Hep G2 (Lane 8), NIH/3T3 (Lane 9), tissue extracts of Mouse Brain (Lane 10) and Rat Brain (Lane 11). The blot was probed with Anti-PGP9.5 Monoclonal Antibody (Product # MA1-83428, 1 µg/ml) and detected by chemiluminescence using Goat anti-Mouse IgG (H+L) Superclonal™ Secondary Antibody, HRP conjugate (Product # A28175, 0.25 µg/ml, 1:4000 dilution). A 27 kDa band corresponding to PGP9.5 was detected across the cell lines and tissues tested except for HeLa, HepG2 and NIH/3T3 which is reported to be negative for PGP9.5 expression.



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Western Blot (4)

Oncotarget

Alpha-linolenic acid stabilizes HIF-1 and downregulates FASN to promote mitochondrial apoptosis for mammary gland chemoprevention.

"Published figure using PGP9.5 monoclonal antibody (Product # MA1-83428) in Western Blot"

Authors: Roy S,Rawat AK,Sammi SR,Devi U,Singh M,Gautam S,Yadav RK,Rawat JK,Singh L,Ansari MN,Saeedan AS, Pandey R,Kumar D,Kaithwas G

Species
Not Applicable

Dilution
Not Cited

Year
2017

Journal of physiology and biochemistry

Comparative efficacy of alpha-linolenic acid and gamma-linolenic acid to attenuate valproic acid-induced autism-like features.

"MA1-83428 was used in western blot to assess the effect of alpha-linolenic acid and gamma-linolenic acid in an autism model"

Authors: Yadav S,Tiwari V,Singh M,Yadav RK,Roy S,Devi U,Gautam S,Rawat JK,Ansari MN,Saeedan AS,Prakash A, Saraf SA,Kaithwas G

Species
Rat

Dilution
1:2000

Year
2017

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