

Product Datasheet

PMCA4 Antibody (2G8) - Azide and BSA Free H00000493-M07

Unit Size: 0.1 mg

Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.

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H00000493-M07

PMCA4 Antibody (2G8) - Azide and BSA Free

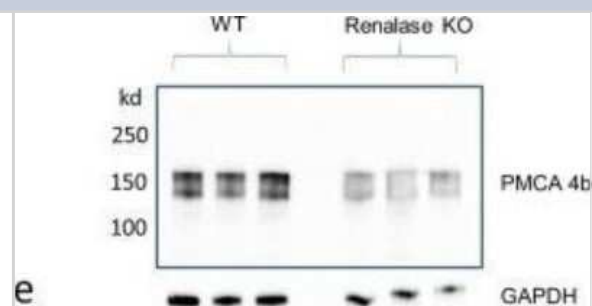
Product Information	
Unit Size	0.1 mg
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	2G8
Preservative	No Preservative
Isotype	IgG1 Kappa
Purity	IgG purified
Buffer	In 1x PBS, pH 7.4

Product Description	
Description	Quality control test: Antibody Reactive Against Recombinant Protein.
Host	Mouse
Gene ID	493
Gene Symbol	ATP2B4
Species	Human
Specificity/Sensitivity	This product is specific for Human ATP2B4 monoclonal antibody (M07), clone 2G8 [Gene ID: 493].
Immunogen	ATP2B4 (NP_001675, 1 a.a. ~ 92 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa. MTNPSPDRVLPANSMAESREGDFGCTVMELRKLME LRSDALTQINVHYGGVQ NLCSRLKTSPVEGLSGNPADLEKRRQVFGHNVIPPKPKT
Notes	This product is produced by and distributed for Abnova, a company based in Taiwan.

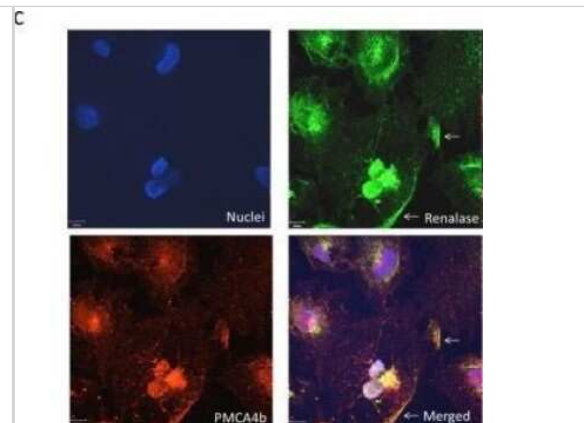
Product Application Details	
Applications	Western Blot, ELISA, Immunocytochemistry/ Immunofluorescence, Sandwich ELISA
Recommended Dilutions	Western Blot, ELISA, Immunocytochemistry/ Immunofluorescence, Sandwich ELISA

Images

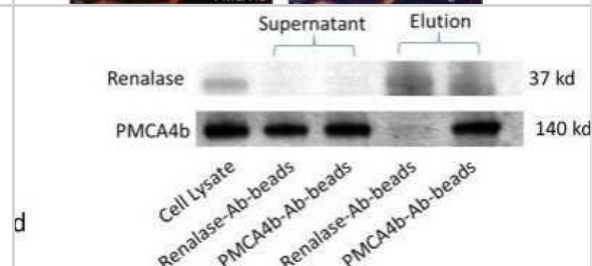
Western Blot: PMCA4 Antibody (2G8) [H00000493-M07] - PMCA4b inhibition abrogates renalase peptide mediated MAPK signaling and cytoprotection. Endogenous expression of PMCA4b in WT and renalase KO mice, western immunoblot using an anti-renalase monoclonal antibody; 10 ug protein loaded in each lane. Image collected and cropped by CiteAb from the following publication (<https://dx.plos.org/10.1371/journal.pone.0122932>), licensed under a CC-BY license.



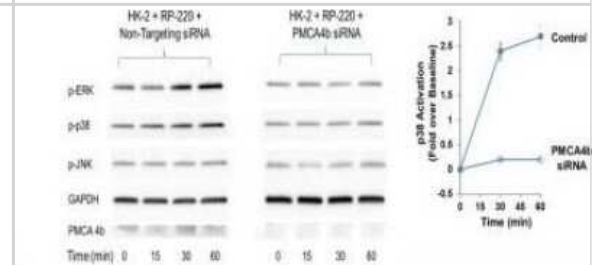
Immunocytochemistry/Immunofluorescence: PMCA4 Antibody (2G8) [H00000493-M07] - Identification of plasma membrane calcium ATPase isoform PMCA4b as a renalase binding protein. Co-immunolocalization of PMCA4b and renalase in HK-2 cells, images acquired using a Zeiss laser scanning confocal microscope, scale bar = 9 μ m; arrow = plasma membrane. Image collected and cropped by CiteAb from the following publication (<https://dx.plos.org/10.1371/journal.pone.0122932>), licensed under a CC-BY license.



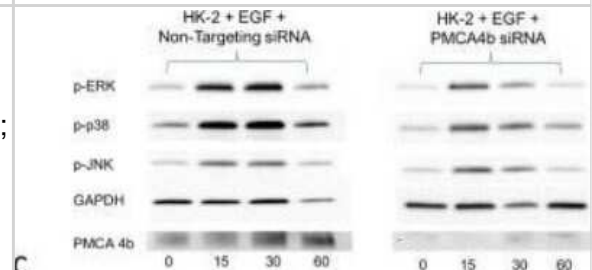
Western Blot: PMCA4 Antibody (2G8) [H00000493-M07] - Identification of plasma membrane calcium ATPase isoform PMCA4b as a renalase binding protein. Co-Immunoprecipitation of PMCA4b and renalase from HK-2 cell lysates; renalase-Ab-beads = renalase antibody coated beads; PMCA4b-Ab-beads = PMCA4b antibody coated beads. Image collected and cropped by CiteAb from the following publication (<https://dx.plos.org/10.1371/journal.pone.0122932>), licensed under a CC-BY license.



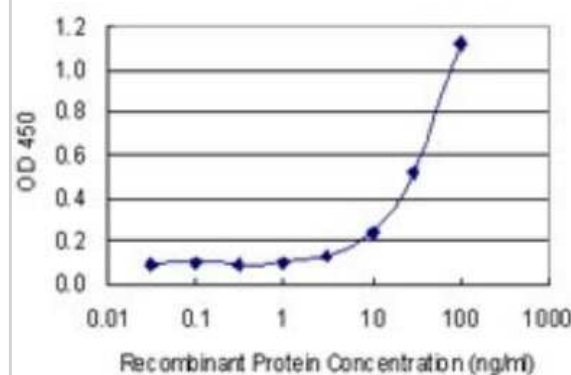
Western Blot: PMCA4 Antibody (2G8) [H00000493-M07] - PMCA4b inhibition abrogates renalase peptide mediated MAPK signaling and cytoprotection. siRNA mediated inhibition of PMCA4b expression downregulates RP-220 mediated MAPK signaling; left panel: RP-220 mediated ERK and p38 activation in HK-2 cells transfected with non-targeting siRNA, p = phosphorylated, representative immunoblot; middle panel: Inhibition of RP-220 mediated ERK and p38 activation in HK-2 cells transfected with PMCA4b siRNA, representative blot; right panel: quantification of phosphorylated ERK (p-ERK), signals normalized to glyceraldehyde 3-phosphate dehydrogenase (GAPDH) loading control; n = 3, * = P<0.05. Image collected and cropped by CiteAb from the following publication (<https://dx.plos.org/10.1371/journal.pone.0122932>), licensed under a CC-BY license.



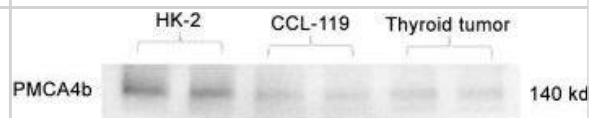
Western Blot: PMCA4 Antibody (2G8) [H00000493-M07] - PMCA4b inhibition abrogates renalase peptide mediated MAPK signaling and cytoprotection. Lack of effect of siRNA mediated inhibition of PMCA4b expression on epidermal growth factor (EGF)- mediated MAPK signaling; left panel: EGF (100 ng/ml) mediated ERK, p38 activation and c-Jun N-Terminal Kinase (JNK) in HK-2 cells transfected with non-targeting siRNA, p = phosphorylated, representative blot; right panel: EGF-mediated ERK, p38 and JNK activation in HK-2 cells unaffected by transfection with PMCA4b siRNA and downregulation of PMCA4b expression; representative blot (n = 3). Image collected and cropped by CiteAb from the following publication (<https://dx.plos.org/10.1371/journal.pone.0122932>), licensed under a CC-BY license.



Sandwich ELISA: PMCA4 Antibody (2G8) [H00000493-M07] - Detection limit for recombinant GST tagged ATP2B4 is 1 ng/ml as a capture antibody.



Western Blot: PMCA4 Antibody (2G8) [H00000493-M07] - Identification of plasma membrane calcium ATPase isoform PMCA4b as a renalase binding protein. A, HK-2 cells incubated with either labeled RP-Scr220 or RP-220, biotin-labeled proteins purified using streptavidin column, separated by SDS-PAGE & visualized by western blot using streptavidin-HRP; * = regions evaluated by mass spectrometry in samples labeled with either RP-Scr220 or RP-220; # = RP-220 band containing the plasma membrane calcium ATPase isoform PMCA4b. B, Endogenous expression of PMCA4b in HK-2 cells, western immunoblot using isoform specific monoclonal; CCL-119: human leukemic cell line; thyroid tumor = human thyroid tumor cell line (ATCC, CRL-1803) 10 µg protein loaded in each lane. C, co-immunolocalization of PMCA4b & renalase in HK-2 cells, images acquired using a Zeiss laser scanning confocal microscope, scale bar = 9 µm; arrow = plasma membrane. D, Co-Immunoprecipitation of PMCA4b & renalase from HK-2 cell lysates; renalase-Ab-beads = renalase antibody coated beads; PMCA4b-Ab-beads = PMCA4b antibody coated beads. Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/25906147>), licensed under a CC0-1.0 license. Not internally tested by Novus Biologicals.



Publications

Wang L, Velazquez H, Chang J et al. Identification of a receptor for extracellular renalase PLoS ONE 2015-04-24 [PMID: 25906147] (WB, Human)



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Products Related to H00000493-M07

HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-43319-0.5mg	Mouse IgG1 Kappa Isotype Control (P3.6.2.8.1)
NBP2-31984PEP	PMCA4 Recombinant Protein Antigen

Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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