Product Datasheet

PMCA1 Antibody (5F10) NB300-578

Unit Size: 100uL

Store at -20C. Avoid freeze-thaw cycles.

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NB300-578

PMCA1 Antibody (5F10)

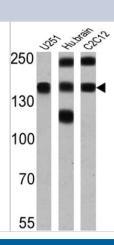
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Product Information		
Unit Size	100uL	
Concentration	This product is unpurified. The exact concentration of antibody is not quantifiable.	
Storage	Store at -20C. Avoid freeze-thaw cycles.	
Clonality	Monoclonal	
Clone	5F10	
Preservative	0.05% Sodium Azide	
Isotype	lgG2a	
Purity	Unpurified	
Buffer	Ascites	
Product Description		
Host	Mouse	
Gene ID	490	
Gene Symbol	ATP2B1	

Species	Human, Mouse, Rat, Porcine, Amphibian, Canine, Chicken, Feline, Hamster, Primate, Rabbit, Sheep
Reactivity Notes	Hamster reactivity reported in scientific literature (PMID: 11022033). Porcine reactivity reported in scientific literature (PMID: 17680983). Please note that this antibody is reactive to Mouse and derived from the same host, Mouse. Additional Mouse on Mouse blocking steps may be required for IHC and ICC experiments. Please contact Technical Support for more information.
Immunogen	Purified human erythrocyte calcium ATPase.
Product Application Details	
Applications	Western Blot, Flow Cytometry, Immunocytochemistry/ Immunofluorescence,

Product Application Details	
Applications	Western Blot, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Immunoprecipitation
Recommended Dilutions	Western Blot 1:1000 - 1:5000, Flow Cytometry 1 ug, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence 1:10-1:500, Immunohistochemistry-Paraffin 1:500, Immunohistochemistry-Frozen 1:10 - 1:500
Application Notes	Blocking/Neutralizing and ELISA usages were reported in scientific literature.

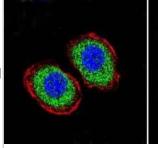
Images

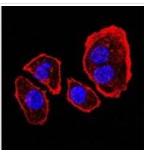
Western Blot: PMCA1 Antibody (5F10) [NB300-578] - Analysis of 25 ug of U251 (lane 1), human brain (lane 2) and C2C12 (lane 3).



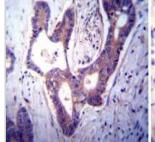


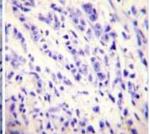
Immunocytochemistry/Immunofluorescence: PMCA1 Antibody (5F10) [NB300-578] - Analysis of PMCA ATPase using Anti-PMCA ATPase Monoclonal Antibody (5F10) shows staining in U251 Cells. PMCA ATPase staining (green), F-Actin staining with Phalloidin (red) and nuclei with DAPI (blue) is shown. Cells were grown on chamber slides and fixed with formaldehyde prior to staining. Cells were probed without (control) or with or an antibody recognizing PMCA ATPase at a dilution of 1:200 over night at 4C, washed with PBS and incubated with a DyLight-488 conjugated.



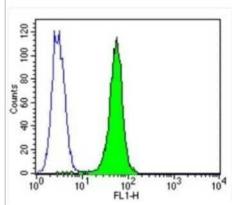


Immunohistochemistry-Paraffin: PMCA1 Antibody (5F10) [NB300-578] - Both normal and cancer biopsies of deparaffinized Human colon carcinoma tissues.

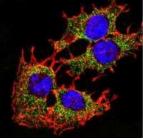


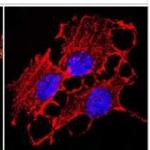


Flow Cytometry: PMCA1 Antibody (5F10) [NB300-578] - Analysis of PMCA ATPase in Hela cells (green) compared to an isotype control (blue).

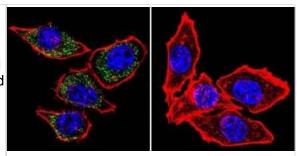


Immunocytochemistry/Immunofluorescence: PMCA1 Antibody (5F10) [NB300-578] - Analysis of PMCA ATPase using Anti-PMCA ATPase Monoclonal Antibody (5F10) shows staining in C6 Cells. PMCA ATPase staining (green), F-Actin staining with Phalloidin (red) and nuclei with DAPI (blue) is shown. Cells were grown on chamber slides and fixed with formaldehyde prior to staining. Cells were probed without (control) or with or an antibody recognizing PMCA ATPase at a dilution of 1:200 over night at 4C, washed with PBS and incubated with a DyLight-488 conjugated.

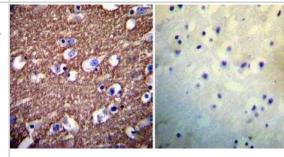




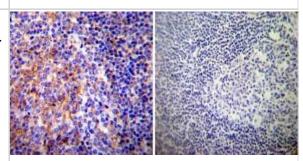
Immunocytochemistry/Immunofluorescence: PMCA1 Antibody (5F10) [NB300-578] - Analysis of PMCA ATPase using Anti-PMCA ATPase Monoclonal Antibody (5F10) shows staining in Hela Cells. PMCA ATPase staining (green), F-Actin staining with Phalloidin (red) and nuclei with DAPI (blue) is shown. Cells were grown on chamber slides and fixed with formaldehyde prior to staining. Cells were probed without (control) or with or an antibody recognizing PMCA ATPase at a dilution of 1:100 over night at 4C, washed with PBS and incubated with a DyLight-488 conjugated.



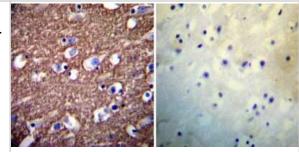
Immunohistochemistry-Paraffin: PMCA1 Antibody (5F10) [NB300-578] - Both normal and cancer biopsies of deparaffinized Human heart tissues.



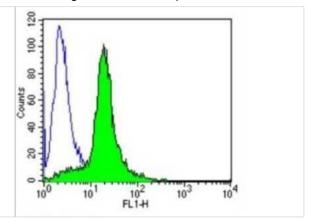
Immunohistochemistry-Paraffin: PMCA1 Antibody (5F10) [NB300-578] - Both normal and cancer biopsies of deparaffinized Human tonsil tissues.



Immunohistochemistry-Paraffin: PMCA1 Antibody (5F10) [NB300-578] - Both normal and cancer biopsies of deparaffinized Human heart tissues.



Flow Cytometry: PMCA1 Antibody (5F10) [NB300-578] - Analysis of PMCA ATPase in Jurkat cells (green) compared to an isotype control (blue).



Publications

Abrego J, Sanford-Crane H, Oon C et al. A Cancer Cell-Intrinsic GOT2-PPAR? Axis Suppresses Antitumor Immunity Cancer discovery 2022-10-05 [PMID: 35894778] (WB, Human)

Ibeh CL, Yiu AJ, Kanaras YL et al. Evidence for a regulated Ca2+ entry in proximal tubular cells and its implication in calcium stone formation J. Cell. Sci. 2019-03-25 [PMID: 30910829] (WB, Mouse)

Louch WE, Hougen K, Mork HK et al. Sodium accumulation promotes diastolic dysfunction in end-stage heart failure following Serca2 knockout. J Physiol. 2010-02-01 [PMID: 20008467]

Sinkins WG, Estacion M, Prasad V et al. Maitotoxin converts the plasmalemmal Ca(2+) pump into a Ca(2+)-permeable nonselective cation channel. Am J Physiol Cell Physiol. 2009-12-01 [PMID: 19794142]

Hill JK, Williams DE, LeMasurier M et al. Splice-site A choice targets plasma-membrane Ca2+-ATPase isoform 2 to hair bundles. J Neurosci. 2006-06-01 [PMID: 16763025]

Krizaj D, Liu X, Copenhagen DR et al. Expression of calcium transporters in the retina of the tiger salamander (Ambystoma tigrinum). J Comp Neurol. 2004-08-01 [PMID: 15236230]

Filoteo AG, Elwess NL, Enyedi A et al. Plasma membrane Ca2+ pump in rat brain. Patterns of alternative splices seen by isoform-specific antibodies. J Biol Chem. 1997-09-01 [PMID: 9295318]

Caride AJ, Filoteo AG, Enyedi A et al. Detection of isoform 4 of the plasma membrane calcium pump in human tissues by using isoform-specific monoclonal antibodies. Biochem J. 1996-05-01 [PMID: 8645230]

Borke JL, Caride A, Verma AK et al. Plasma membrane calcium pump and 28-kDa calcium binding protein in cells of rat kidney distal tubules. Am J Physiol. 1989-11-01 [PMID: 2556040]





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Products Related to NB300-578

HAF007 Goat anti-Mouse IgG Secondary Antibody [HRP]

NB720-B Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]

NBP1-96778 Mouse IgG2a Isotype Control (M2A)

H00000490-Q01-10ug Recombinant Human PMCA1 GST (N-Term) Protein

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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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