

PMCA2 ATPase Polyclonal Antibody

Product Details

Size	100 µg
Species Reactivity	Human, Pig, Rat
Published Species	Pig, Rat, Hamster, Human, Mouse, Chicken
Host/Isotype	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	Synthetic Peptide: T(5) N S D F Y S K N Q R N E S S(19)
Form	Liquid
Concentration	1 mg/mL
Purification	Antigen affinity chromatography
Storage buffer	PBS with 1mg/mL BSA
Contains	0.05% sodium azide
Storage conditions	-20° C, Avoid Freeze/Thaw Cycles
RRID	AB_2243199

Applications	Tested Dilution	Publications
Western Blot (WB)	1:1,000	15 Publications
Immunohistochemistry (IHC)	-	7 Publications
Immunohistochemistry (Paraffin) (IHC (P))	1:20-1:200	1 Publication
Immunohistochemistry (Frozen) (IHC (F))	1:20-1:200	1 Publication
Immunocytochemistry (ICC/IF)	-	11 Publications
ELISA (ELISA)	Assay-dependent	-
Immunoprecipitation (IP)	-	2 Publications
Functional Assay (FN)	-	1 Publication
Gel Shift (GS)	-	1 Publication
Miscellaneous PubMed (Misc)	-	1 Publication

Product Specific Information

PA1-915 detects calcium pump of the plasma membrane 2 (PMCA2 ATPase) from human and rat and porcine tissues and cells.

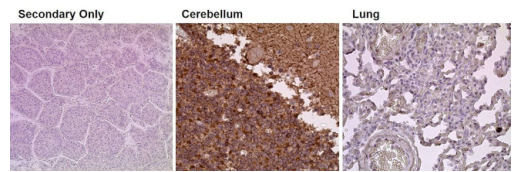
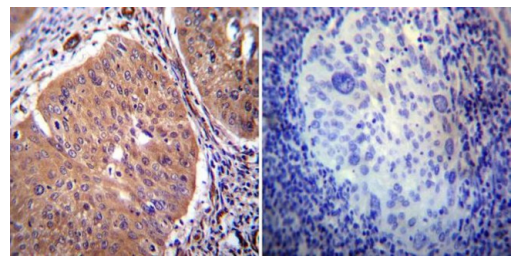
PA1-915 has been successfully used in Western blot procedures. By Western blot, this antibody detects an ~127 kDa protein and an ~133 kDa protein representing PMCA2a and PMCA2b ATPase, respectively, from rat brain microsomal fractions.

PA1-915 immunizing peptide corresponds to amino acid residues 5-19 from human PMCA2 ATPase protein. This sequence is completely conserved between human and rat PMCA2 ATPase.

Product Images For PMCA2 ATPase Polyclonal Antibody

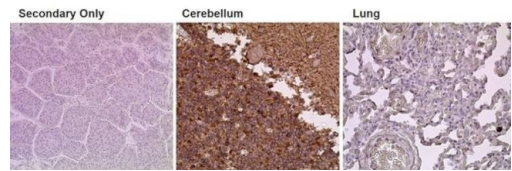
PMCA2 ATPase Antibody (PA1-915) in IHC (P)

Immunohistochemistry was performed on cancer biopsies of deparaffinized Human cervical carcinoma tissue. To expose target proteins, heat induced antigen retrieval was performed using 10mM sodium citrate (pH6.0) buffer, microwaved for 8-15 minutes. Following antigen retrieval tissues were blocked in 3% BSA-PBS for 30 minutes at room temperature. Tissues were then probed at a dilution of 1:20 with a rabbit polyclonal antibody recognizing PMCA2 ATPase (Product # PA1-915) or without primary antibody (negative control) overnight at 4° C in a humidified chamber. Tissues were washed extensively with PBST and endogenous peroxidase activity was quenched with a peroxidase suppressor. Detection was performed using a biotin-conjugated secondary antibody and SA-HRP, followed by colorimetric detection using DAB. Tissues were counterstained with hematoxylin and prepped for mounting.



PMCA2 ATPase Antibody (PA1-915)

The specificity of anti-PMCA2 polyclonal antibody (Product # PA1-915) was demonstrated using naturally occurring variable expression to confirm specificity. Immunohistochemistry analysis of human tissue sections using this antibody showed PMCA2 is highly stained in cerebellum tissue and no staining in human lung which does not express PMCA2. {RE}



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Western Blot (15)

Cell reports	Year 2021
MAL2 mediates the formation of stable HER2 signaling complexes within lipid raft-rich membrane protrusions in breast cancer cells.	Species Human
"PA1-915 was used in Immunocytochemistry, Western Blot to show that MAL2-mediated lipid raft formation leads to HER2 plasma membrane retention and enhanced HER2 signaling in breast cancer cells."	
Authors: Jeong J,Shin JH,Li W,Hong JY,Lim J,Hwang JY,Chung JJ,Yan Q,Liu Y,Choi J,Wysolmerski J	
Frontiers in cellular neuroscience	Year 2020
Glutamate Deregulation in Ketamine-Induced Psychosis-A Potential Role of PSD95, NMDA Receptor and PMCA Interaction.	Species Rat
"PA1-915 was used in Western Blotting to characterize brain region-specific effects of ketamine on PMCA activity."	
Authors: Lisek M,Ferenc B,Studzian M,Pulaski L,Guo F,Zylinska L,Boczek T	

View more WB references on thermofisher.cn

Immunohistochemistry (7)

Hearing research	Year 2013
A new Atp2b2 deafwaddler allele, dfw(i5), interacts strongly with Cdh23 and other auditory modifiers.	Species Mouse
"PA1-915 was used in immunohistochemistry to study the interactions of Cdh23 and an unidentified hearing loss gene with a novel Atp2b2 deafwaddler allele of the plasma membrane Ca(2+)-ATPase 2"	
Authors: Watson CJ,Tempel BL	
Dilution 1:7500	
The European journal of neuroscience	Year 2012
The development, distribution and density of the plasma membrane calcium ATPase 2 calcium pump in rat cochlear hair cells.	Species Rat
"PA1-915 was used in immunohistochemistry to study the localization and function of the plasma membrane calcium ATPase 2 calcium pump in rat cochlear hair cells"	
Authors: Chen Q,Mahendrasingam S,Tickle JA,Hackney CM,Furness DN,Fettiplace R	
Dilution 1:400	

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More applications with references on thermofisher.cn

- IHC (P) (1)
- IHC (F) (1)
- ICC/IF (11)
- IP (2)
- FN (1)
- GS (1)
- Misc (1)

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