

Product datasheet

Anti-Calcium Pump PMCA2 ATPase antibody ab3529

★★★★★ [3 Abreviews](#) [13 References](#) [3 Images](#)

Overview

Product name	Anti-Calcium Pump PMCA2 ATPase antibody
Description	Rabbit polyclonal to Calcium Pump PMCA2 ATPase
Host species	Rabbit
Specificity	Detects PMCA 2a and 2b ATPase.
Tested applications	Suitable for: IHC-FoFr, ICC, ELISA, IHC-Fr, WB, ICC/IF, IHC-P, IP
Species reactivity	Reacts with: Mouse, Rat, Chicken, Human, Pig, Non human primates
Immunogen	Synthetic peptide corresponding to Human Calcium Pump PMCA2 ATPase aa 1-100. Run BLAST with Expasy Run BLAST with NCBI
Positive control	IHC-P: Human brain and cervical carcinoma tissue.
General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	Preservative: 0.05% Sodium azide Constituents: 0.1% BSA, 99% PBS
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab3529 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-FoFr	★★★★★ (1)	Use at an assay dependent concentration.
ICC		Use at an assay dependent concentration.
ELISA		Use at an assay dependent concentration.
IHC-Fr		Use at an assay dependent concentration.
WB	★★★★★ (1)	Use at an assay dependent concentration. Predicted molecular weight: 137 kDa.
ICC/IF		Use at an assay dependent concentration. PubMed: 20489728
IHC-P	★★★★★ (1)	Use at an assay dependent concentration.
IP		Use at an assay dependent concentration.

Target**Function**

This magnesium-dependent enzyme catalyzes the hydrolysis of ATP coupled with the transport of calcium out of the cell.

Tissue specificity

Mainly expressed in brain cortex. Found in low levels in skeletal muscle, heart muscle, stomach, liver, kidney and lung. Isoforms containing segment B are found in brain cortex and at low levels in other tissues. Isoforms containing segments X and W are found at low levels in all tissues. Isoforms containing segment A and segment Z are found at low levels in skeletal muscle and heart muscle.

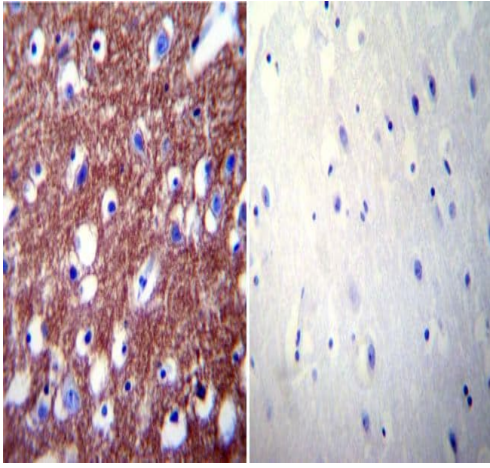
Sequence similarities

Belongs to the cation transport ATPase (P-type) (TC 3.A.3) family. Type IIB subfamily.

Cellular localization

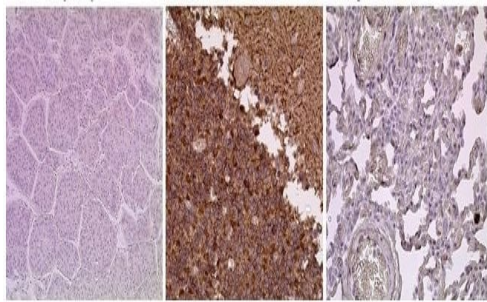
Cell membrane.

Images



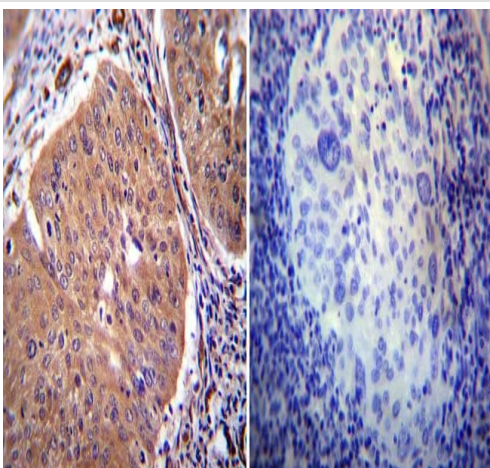
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Calcium Pump PMCA2 ATPase antibody (ab3529)

Immunohistochemistry was performed on normal biopsies of deparaffinized Human brain 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 1:200 with a rabbit polyclonal antibody recognizing PMCA2 ATPase ab3529 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.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Calcium Pump PMCA2 ATPase antibody (ab3529)

Human cerebellum (Centre panel) and lung (Negative control, right panel) stained for PMCA2 ATPase using ab3529 at 1/20 dilution in immunohistochemical analysis. The left hand panel is a secondary antibody only control.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Calcium Pump PMCA2 ATPase antibody (ab3529)

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 ab3529 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.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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