

Datasheet for ABIN7042958

anti-ATP2B4 antibody (2nd Cytoplasmic Loop)**2** Images[Go to Product page](#)

Overview

Quantity:	25 µL
Target:	ATP2B4
Binding Specificity:	2nd Cytoplasmic Loop, AA 601-617
Reactivity:	Rat
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), Immunofluorescence (IF), Immunohistochemistry (IHC)

Product Details

Immunogen:	Immunogen: Synthetic peptide Immunogen Sequence: CDRILNKEGGIVPFKTK, corresponding to amino acid residues 601-617 of rat PMCA4
Isotype:	IgG
Cross-Reactivity (Details):	This antibody is not recommended for human samples.
Characteristics:	Anti-PMCA4 Antibody is directed against an epitope of rat PMCA4. Anti-PMCA4 Antibody (ABIN7042958, ABIN7044146 and ABIN7044147)) can be used in western blot and immunohistochemistry applications. It has been designed to recognize PMCA4 from rat and mouse samples. It is unlikely to recognize PMCA4 from human samples.
Purification:	Affinity purified on immobilized antigen.

Target Details

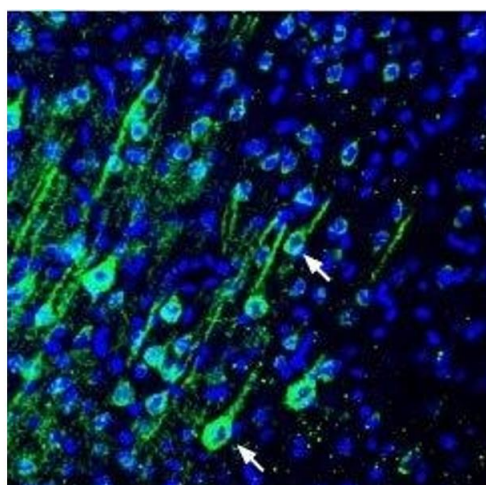
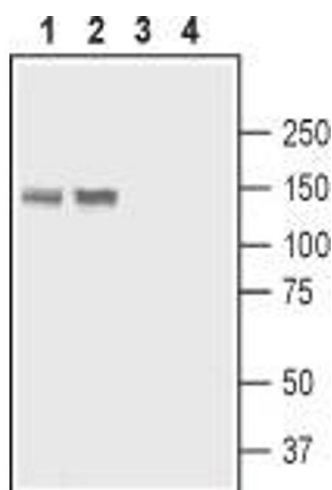
Target:	ATP2B4
Alternative Name:	PMCA4 (ATP2B4 Products)
Background:	Alternative names: PMCA4, Plasma membrane Ca ²⁺ ATPase 4, Matrix-Remodeling-Associated Protein 1, ATP2B4
Gene ID:	29600
NCBI Accession:	NM_001001396
UniProt:	Q64542
Pathways:	Ribonucleoside Biosynthetic Process

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	25 µL, 50 µL or 0.2 mL double distilled water (DDW), depending on the sample size.
Concentration:	0.8 mg/mL
Buffer:	Reconstituted antibody contains phosphate buffered saline (PBS), pH 7.4, 1 % BSA, 0.05 % Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	RT, 4 °C, -20 °C
Storage Comment:	<p>Storage before reconstitution: The antibody ships as a lyophilized powder at room temperature. Upon arrival, it should be stored at -20°C.</p> <p>Storage after reconstitution: The reconstituted solution can be stored at 4°C for up to 1 week. For longer periods, small aliquots should be stored at -20°C. Avoid multiple freezing and thawing. Centrifuge all antibody preparations before use (10000 x g 5 min).</p>



Western Blotting

Image 1. Western blot analysis of rat stomach lysate (lanes 1 and 3) and rat lung membranes (lanes 2 and 4): - 1,2. Anti-PMCA4 Antibody (ABIN7042958, ABIN7044146 and ABIN7044147), (1:200).3,4. Anti-PMCA4 Antibody, preincubated with PMCA4 Blocking Peptide (#BLP-CP004).

Immunohistochemistry

Image 2. Expression of PMCA4 in rat parietal cortex - Immunohistochemical staining of perfusion-fixed frozen rat brain sections using Anti-PMCA4 Antibody (ABIN7042958, ABIN7044146 and ABIN7044147), (1:300), followed by goat anti-rabbit-AlexaFluor-488 antibody. PMCA4 staining (green) appears in neuronal profiles in deep layers of the parietal cortex (arrows). Nuclei are labeled with DAPI (blue).