Datasheet for ABIN7042955

anti-ATP2B1 antibody (Intracellular, N-Term)

2 Images

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Overview

Quantity:	25 µL
Target:	ATP2B1
Binding Specificity:	AA 12-24, Intracellular, N-Term
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF)

Product Details

Immunogen:	Immunogen: Synthetic peptide Immunogen Sequence: (C)SGVKNSLKEANHD, corresponding to amino acid residues 12-24 of human PMCA1
Isotype:	IgG
Cross-Reactivity (Details):	This antibody will recognize all known PMCA1 splice variants.
Characteristics:	Anti-PMCA1 Antibody is directed against an epitope of the human Plasma membrane calcium-transporting ATPase 1. Anti-PMCA1 Antibody (ABIN7042955, ABIN7044148 and ABIN7044149)) can be used in western blot and immunohistochemistry applications. It has been designed to recognize PMCA1 from mouse, rat, and human samples.
Purification:	Affinity purified on immobilized antigen.

Target Details

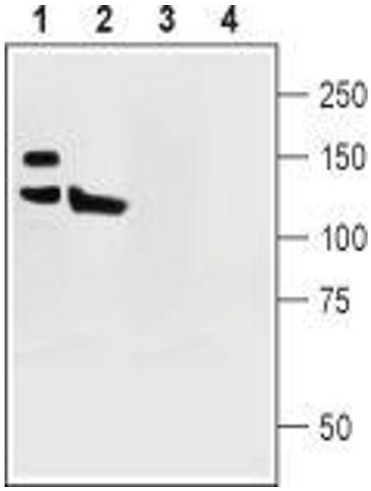
Target:	ATP2B1
Alternative Name:	PMCA1 (ATP2B1 Products)
Background:	Alternative names: PMCA1, Plasma membrane Ca2+ ATPase 1, ATP2B1
Gene ID:	490
NCBI Accession:	NM_001682
UniProt:	P20020
Pathways:	Ribonucleoside Biosynthetic Process

Application Details

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

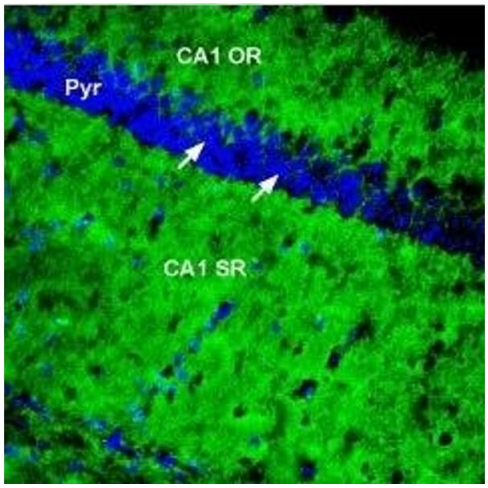
Handling

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:	Storage before reconstitution: The antibody ships as a lyophilized powder at room temperature. Upon arrival, it should be stored at -20°C. 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).



Western Blotting

Image 1. Western blot analysis of rat (lanes 1 and 3) and mouse (lanes 2 and 4) brain lysates: - 1,2. Anti-PMCA1 Antibody (ABIN7042955, ABIN7044148 and ABIN7044149), (1:200).3,4. Anti-PMCA1 Antibody, preincubated with PMCA1 Blocking Peptide (#BLP-CP005).



Immunohistochemistry

Image 2. Expression of PMCA1 in mouse hippocampus - Immunohistochemical staining of perfusion-fixed frozen rat brain sections using Anti-PMCA1 Antibody (ABIN7042955, ABIN7044148 and ABIN7044149), (1:300), followed by goat anti-rabbit-AlexaFluor-488 antibody. PMCA1 staining (green) appears in the stratum radiatum (SR) and oriens (OR) layers but not in the pyramidal (Pyr) layer of hippocampal CA1 region (arrows). Nuclei are labeled with DAPI (blue).

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