SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-PMCA2 antibody

Catalog Number: SL6499R

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	PMCA2
Immunogen:	KLH conjugated synthetic peptide derived from human PMCA: 361-460/1243 <Extracellular>
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	IHC-P=1:100-500 IHC-F=1:100-500 IF=1:100-500 ELISA=1:5000-10000 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Rat, (predicted: Human, Mouse, Dog, Cow, Horse)
Predicted MW.:	137kDa
Subcellular Location:	The cell membrane
Background:	Plasma membrane-type Ca2+-ATPases (PMCAs) mediate the export of bivalent calcium ions from eukaryotic cells. As members of the P class of ion-motive ATPases, PMCAs are a functionally diverse group of proteins that are derived from alternatively spliced transcripts originating from at least four distinct genes. The expression of different PMCA isoforms and splice variants is regulated in a developmental, tissue- and cell type-specific manner, and with respect to the physiological needs of specific cell and tissue types. Spatial and temporal rates of resting intracellular Ca2+ concentrations and Ca2+ signaling in eukaryotic cells are dependent on the array of PMCA isoforms that are expressed in concert with the rate of Ca2+ export.

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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	Function: This magnesium-dependent enzyme catalyzes the hydrolysis of ATP coupled with the transport of calcium out of the cell. **Subcellular Location:** Cell membrane; Multi-pass membrane protein. **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. **Similarity:** Belongs to the cation transport ATPase (P-type) (TC 3.A.3) family. Type IIB subfamily. **Database links:** **Entrez Gene:** 491 Human **Entrez Gene:** 11941 Mouse **Entrez Gene:** 24215 Rat Omim: 108733 Human **SwissProt:** Q01814 Human **SwissProt:** Q9R0K7 Mouse **SwissProt:** P11506 Rat **Unigene:** 268942 Human **Unigene:** 321755 Mouse **Unigene:** 90982 Rat

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