



## Rabbit Anti-PMCA4B antibody

SL8201R

<b>Product Name:</b>	PMCA4B
<b>Chinese Name:</b>	The cell membrane钙ATP酶4B抗体
<b>Alias:</b>	PMCA4b; PMCA4x; AT2B4_HUMAN; ATP2B2; ATPase Ca <sup>++</sup> transporting plasma membrane 4; Cation transporting ATPase; DKFZp686G08106; DKFZp686M088; Matrix remodelling associated 1; Matrix remodelling associated protein 1; Matrix-remodeling-associated protein 1; MXRA 1; MXRA1; Plasma membrane calcium ATPase 4; Plasma membrane calcium ATPase isoform 4; Plasma membrane calcium pump isoform 4; Plasma membrane calcium transporting ATPase 4; Plasma membrane calcium-transporting ATPase 4; PMCA 4; PMCA4.
<b>Organism Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>React Species:</b>	Human,Mouse,Rat,Pig,Cow,Horse,Rabbit,
<b>Applications:</b>	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:50-200 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
<b>Molecular weight:</b>	130kDa
<b>Cellular localization:</b>	The cell membrane
<b>Form:</b>	Lyophilized or Liquid
<b>Concentration:</b>	1mg/ml
<b>immunogen:</b>	KLH conjugated synthetic peptide derived from human PMCA4B:901-1000/1241<Extracellular>
<b>Lsotype:</b>	IgG
<b>Purification:</b>	affinity purified by Protein A
<b>Storage Buffer:</b>	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
<b>Storage:</b>	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
<b>PubMed:</b>	<a href="#">PubMed</a>

**Product Detail:**

The protein encoded by this gene belongs to the family of P-type primary ion transport ATPases characterized by the formation of an aspartyl phosphate intermediate during the reaction cycle. These enzymes remove bivalent calcium ions from eukaryotic cells against very large concentration gradients and play a critical role in intracellular calcium homeostasis. The mammalian plasma membrane calcium ATPase isoforms are encoded by at least four separate genes and the diversity of these enzymes is further increased by alternative splicing of transcripts. The expression of different isoforms and splice variants is regulated in a developmental, tissue- and cell type-specific manner, suggesting that these pumps are functionally adapted to the physiological needs of particular cells and tissues. This gene encodes the plasma membrane calcium ATPase isoform 4. Alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq, Jul 2008].

**Function:**

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

**Subcellular Location:**

Cell membrane.

**Tissue Specificity:**

Isoform XB is the most abundant isoform and is expressed ubiquitously. Isoforms containing segment Z have only been detected in heart, while isoforms containing segment a have been found in heart, stomach and brain cortex.

**Similarity:**

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

**SWISS:**

P23634

**Gene ID:**

493

**Database links:**

UniProtKB/Swiss-Prot: P23634.2

**Important Note:**

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