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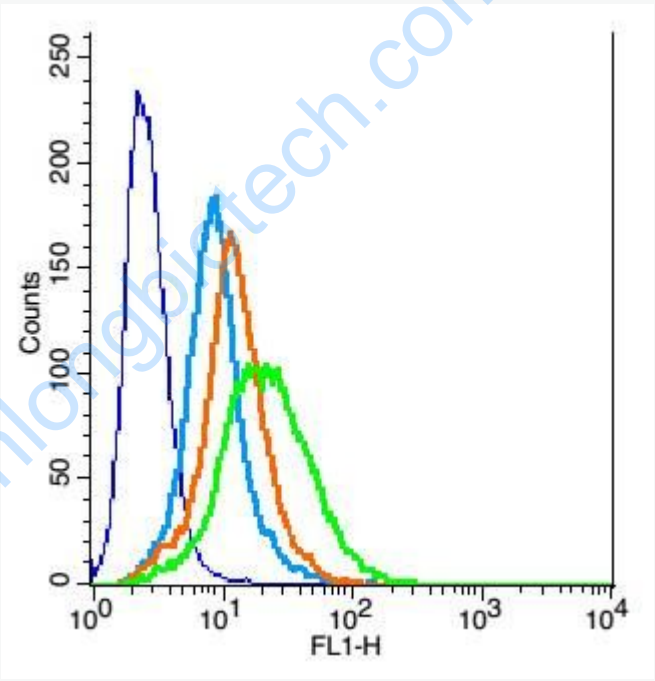
Rabbit Anti-PMCA2 antibody

SL6499R

Product Name:	PMCA2
Chinese Name:	The cell membrane钙转运ATP酶抗体
Alias:	ATP2B1; ATP2B2; ATP2B3; ATP2B4; ATPase Ca++ transporting plasma membrane 1; ATPase Ca++ transporting plasma membrane 2; ATPase Ca++ transporting plasma membrane 3; ATPase Ca++ transporting plasma membrane 4; Plasma membrane calcium transporting ATPase 1; Plasma membrane calcium transporting ATPase 2; Plasma membrane calcium transporting ATPase 3; Plasma membrane calcium transporting ATPase 4; PMCA1; PMCA2; PMCA3; PMCA4; AT2B2_HUMAN.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Cow,Horse,
Applications:	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:50-200（Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	137kDa
Cellular localization:	The cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human PMCA:361-460/1243<Extracellular>
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	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.
PubMed:	PubMed
Product Detail:	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. **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. **SWISS:** Q01814 **Gene ID:** 491 **Database links:** Entrez Gene: 491Human Entrez Gene: 11941Mouse Entrez Gene: 24215Rat Omim: 108733Human SwissProt: Q01814Human SwissProt: Q9R0K7Mouse

	SwissProt: P11506Rat Unigene: 268942Human Unigene: 321755Mouse Unigene: 90982Rat **Important Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Picture:	 Blank control: H9C2 (blue) Isotype Control Antibody: Rabbit IgG(orange) ; Secondary Antibody: Goat anti-rabbit IgG-FITC(white blue), Dilution: 1:100 in 1 X PBS containing 0.5% BSA ; Primary Antibody Dilution: 3µl in 100 µL1X PBS containing 0.5% BSA(green).