

ARG62520
anti-ATP2B1 / PMCA1 antibody [5F10]Package: 100 µl
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [5F10] recognizes ATP2B1 / PMCA1
Tested Reactivity	Hu, Ms, Rat, Amph, Bov, Cat, Chk, Dog, Hm, Rb, Sheep
Tested Application	ELISA, FACS, ICC/IF, IHC-Fr, IHC-P, IP, Inhib, WB
Host	Mouse
Clonality	Monoclonal
Clone	5F10
Isotype	IgG2a
Target Name	ATP2B1 / PMCA1
Species	Human
Immunogen	Full length native protein (purified) corresponding to Human Calcium Pump pan PMCA ATPase. Purified human erythrocyte calcium ATPase.
Conjugation	Un-conjugated
Alternate Names	PMCA1; PMCA1kb; EC 3.6.3.8; Plasma membrane calcium ATPase isoform 1; Plasma membrane calcium pump isoform 1; Plasma membrane calcium-transporting ATPase 1

Application Instructions

Application table	Application	Dilution
	ELISA	Assay-dependent
	FACS	1:20 - 1:100
	ICC/IF	Assay-dependent
	IHC-Fr	Assay-dependent
	IHC-P	1:500
	IP	Assay-dependent
	Inhib	Assay-dependent
	WB	1:1000

Application Note * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

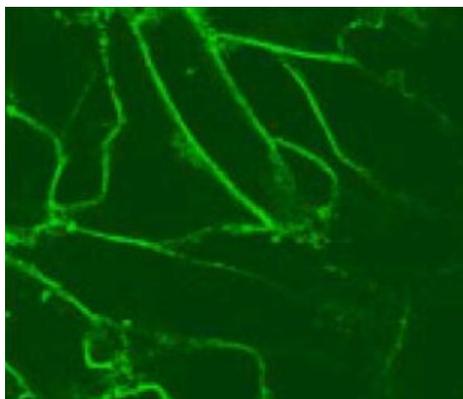
Form	Liquid
Buffer	PBS and 0.05% Sodium azide

Preservative	0.05% Sodium azide
Concentration	0.2 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol	ATP2B1
Gene Full Name	ATPase, Ca ⁺⁺ transporting, plasma membrane 1
Background	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 1. 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. [UniProt]
Research Area	Metabolism antibody; Signaling Transduction antibody
Calculated Mw	135 kDa
Cellular Localization	Cell membrane

Images



ARG62520 anti-ATP2B1 / PMCA1 antibody [5F10] ICC/IF image

Immunofluorescence: BHK-21 cells were fixed with 4% PFA for 10 min and permeabilized in 0.1% saponin/PBS. Cells were stained with ARG62520 anti-ATP2B1 / PMCA1 antibody [5F10].