ARG65744
anti-ATP2B1 / PMCA1 antibody

Package: 100 µg, 50 µg
Store at: -20°C

Summary

Product Description	Goat Polyclonal antibody recognizes ATP2B1 / PMCA1
Tested Reactivity	Hu
Predict Reactivity	Ms, Rat, Cow, Dog, Pig
Tested Application	WB
Specificity	This antibody is expected to recognize both reported isoforms (NP_001001323.1; NP_001673.2).
Host	Goat
Clonality	Polyclonal
Isotype	IgG
Target Name	ATP2B1 / PMCA1
Species	Human
Immunogen	Synthetic peptide around the internal region of Human ATP2B1. (C-KQDGAIENRNKAKAQD)
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
WB	0.03 - 0.1 µg/ml

Application Note

WB: Recommend incubate at RT for 1h.
* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

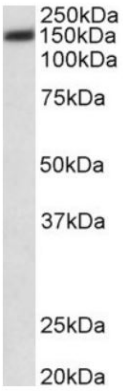
Form	Liquid
Purification	Affinity purified
Buffer	Tris saline (pH 7.3), 0.02% Sodium azide and 0.5% BSA.
Preservative	0.02% Sodium azide
Stabilizer	0.5% BSA
Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot 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

Database links	GeneID: 490 Human Swiss-port # P20020 Human
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]
Calculated Mw	135 kDa (NP_001673.2)

Images



ARG65744 anti-ATP2B1 / PMCA1 antibody WB image

Western blot: 35 µg of HeLa lysate stained with ARG65744 anti-ATP2B1 / PMCA1 antibody at 0.03 µg/ml dilution (1 hour incubation).