

ATP2B3 rabbit monoclonal antibody

Catalog # H00000492-K

Size 100 ug x up to 3

Specification

Product Description	Rabbit monoclonal antibody raised against a human ATP2B3 peptide using ARM Technology.
Immunogen	A synthetic peptide of human ATP2B3 is used for rabbit immunization. Customer or Abnova will decide on the preferred peptide sequence.
Host	Rabbit
Library Construction	Non-fusion antibody library from rabbit spleen (ARM Technology).
Expression	Overexpression vector and transfection into 293H cell line.
Reactivity	Human
Purification	Protein A
Isotype	IgG
Quality Control Testing	Antibody reactive against human ATP2B3 peptide by ELISA and mammalian transfected lysate by Western Blot.
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Deliverable	Up to three rabbit IgG clones of 100 ug each will be delivered to customer.
Note	1. Customer may provide cell or tissue lysate for antibody screening. 2. Rabbit monoclonal antibody generated by ARM technology is amenable to antibody engineering including F(ab) ₂ , IgG, scFv and different Fc and non-Fc conjugates per customer request.

Applications

- Western Blot (Transfected lysate)

[Protocol Download](#)

- ELISA

Gene Info — ATP2B3

Entrez GeneID	492
GeneBank Accession#	ATP2B3
Gene Name	ATP2B3
Gene Alias	PMCA3, PMCA3a
Gene Description	ATPase, Ca ⁺⁺ transporting, plasma membrane 3
Omim ID	300014
Gene Ontology	Hyperlink
Gene Summary	<p>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 3. Alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq]</p>
Other Designations	OTTHUMP00000025917 plasma membrane calcium ATPase 3 plasma membrane calcium pump

Pathway

- [Calcium signaling pathway](#)

Disease

- [Attention Deficit Disorder with Hyperactivity](#)
- [Functional Laterality](#)
- [Genetic Predisposition to Disease](#)