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ATP2B4 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP14531B

Specification

ATP2B4 Antibody (C-term) - Product Information

Application	**WB,E**
Primary Accession	P23634
Other Accession	NP_001675.3, NP_001001396.1
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**137920**
Antigen Region	**1174-1202**

ATP2B4 Antibody (C-term) - Additional Information

Gene ID 493

Other Names
Plasma membrane calcium-transporting ATPase 4, PMCA4, Matrix-remodeling-associated protein 1, Plasma membrane calcium ATPase isoform 4, Plasma membrane calcium pump isoform 4, ATP2B4, ATP2B2, MXRA1

Target/Specificity
This ATP2B4 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1174-1202 amino acids from the C-terminal region of human ATP2B4.

Dilution
WB~~1:1000

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
ATP2B4 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

ATP2B4 Antibody (C-term) - Protein Information

Name ATP2B4 (HGNC:817)

Synonyms ATP2B2, MXRA1

Function Calcium/calmodulin-regulated and magnesium-dependent enzyme that catalyzes the hydrolysis of ATP coupled with the transport of calcium out of the cell (PubMed:8530416). By regulating sperm cell calcium homeostasis, may play a role in sperm motility (By similarity).

Cellular Location
Cell membrane; Multi-pass membrane protein. Cell projection, cilium, flagellum membrane {ECO:0000250|UniProtKB:Q6Q477}; Multi-pass membrane protein

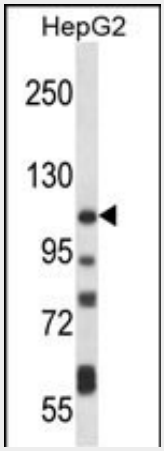
Tissue Location
Isoform XB is the most abundant isoform and is expressed ubiquitously. Isoforms containing segment Z have only been detected in heart, while isoforms containing segment a have been found in heart, stomach and brain cortex.

ATP2B4 Antibody (C-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

ATP2B4 Antibody (C-term) - Images



ATP2B4 Antibody (C-term) (Cat. #AP14531b) western blot analysis in HepG2 cell line lysates (35ug/lane).This demonstrates the ATP2B4 antibody detected the ATP2B4 protein (arrow).

ATP2B4 Antibody (C-term) - 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 4. Alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq].

ATP2B4 Antibody (C-term) - References

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