

ATP2B4 Antibody (C-term) Blocking Peptide
Synthetic peptide
Catalog # BP14531b**Specification**

ATP2B4 Antibody (C-term) Blocking Peptide - Product InformationPrimary Accession [P23634](#)**ATP2B4 Antibody (C-term) Blocking Peptide - 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

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

ATP2B4 Antibody (C-term) Blocking Peptide - Protein InformationName 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) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

ATP2B4 Antibody (C-term) Blocking Peptide - Images

ATP2B4 Antibody (C-term) Blocking Peptide - 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) Blocking Peptide - References

Holton, M., et al. Cardiovasc. Res. 87(3):440-448(2010) Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010) Juranic, N., et al. J. Biol. Chem. 285(6):4015-4024(2010) Ehret, G.B., et al. Eur. J. Hum. Genet. 17(12):1650-1657(2009) Aung, C.S., et al. Carcinogenesis 30(11):1962-1969(2009)