



Anti-ATP2B4 monoclonal antibody (DCABH-10667)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	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.
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Immunogen	A synthetic peptide of human ATP2B4 is used for rabbit immunization.
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human
Purification	Protein A
Conjugate	Unconjugated
Applications	Western Blot (Transfected lysate); ELISA
Buffer	In 1x PBS, pH 7.4
Preservative	None

Storage

Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

GENE INFORMATION

Gene Name	ATP2B4 ATPase, Ca++ transporting, plasma membrane 4 [Homo sapiens]
Official Symbol	ATP2B4
Synonyms	ATP2B4; ATPase, Ca++ transporting, plasma membrane 4; ATP2B2, matrix remodelling associated 1 , MXRA1; plasma membrane calcium-transporting ATPase 4; plasma membrane calcium transporting ATPase 4; PMCA4; sarcolemmal calcium pump; matrix-remodeling-associated protein 1; MXRA1; ATP2B2; PMCA4b; PMCA4x; DKFZp686M088; DKFZp686G08106;
Entrez Gene ID	493
Protein Refseq	NP_001001396
UniProt ID	P23634
Chromosome Location	1q32.1
Pathway	B Cell Receptor Signaling Pathway, organism-specific biosystem; Calcium signaling pathway, organism-specific biosystem; Calcium signaling pathway, conserved biosystem; Hemostasis, organism-specific biosystem; Ion channel transport, organism-specific biosystem; Ion transport by P-type ATPases, organism-specific biosystem; Pancreatic secretion, organism-specific biosystem;
Function	ATP binding; PDZ domain binding; calcium-transporting ATPase activity; calmodulin binding; hydrolase activity; hydrolase activity, acting on acid anhydrides, catalyzing transmembrane movement of substances; metal ion binding; nucleotide binding; protein b