

Recombinant Human ATP2B1 protein, GST-tagged

Cat. No. ATP2B1-972H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human ATP2B1 partial ORF (NP_001673, 1 a.a. - 97 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	Wheat Germ
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 1. Alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq, Jul 2008]
Molecular Mass	36.41 kDa
AA Sequence	MGDMANNSVAYSGVKNSLKEANHGDGFGITLAE LRALMELRSTDALRKIQESYGDV

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

YGICTKLKTSPNEGLSGNPADLERREAVFGKNFIPPKPKT

Applications

Enzyme-linked Immunoabsorbent Assay; Western Blot (Recombinant protein); Antibody Production; Protein Array

Notes

Best use within three months from the date of receipt of this protein.

Storage

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name

ATP2B1 ATPase, Ca⁺⁺ transporting, plasma membrane 1 [Homo sapiens]

Official Symbol

ATP2B1

Synonyms

ATP2B1; ATPase, Ca⁺⁺ transporting, plasma membrane 1; plasma membrane calcium-transporting ATPase 1; plasma membrane calcium transporting ATPase 1; PMCA1; plasma membrane calcium pump; PMCA1kb;

Gene ID

490

mRNA Refseq

NM_001001323

Protein Refseq

NP_001001323

MIM

108731

UniProt ID

P20020

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