

## 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** MGDMANNSVAYSGVKNSLKEANHDGDFGITLAELRALMELRSTDALRKIQESYGDV

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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<sup>++</sup> transporting, plasma membrane 1 \[ Homo sapiens \]](#)

**Official Symbol**

[ATP2B1](#)

**Synonyms**

ATP2B1; ATPase, Ca<sup>++</sup> 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](#)

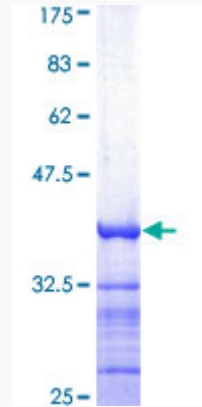
**UniProt ID**

[P20020](#)

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12.5% SDS-PAGE Stained with Coomassie Blue.

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