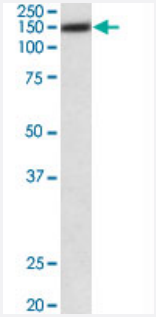
ATP2B1 polyclonal antibody

Catalog # PAB24566 Size 100 ug

Applications



Western Blot (Cell lysate)

ATP2B1 polyclonal antibody (Cat # PAB24566) (0.03 ug/mL) staining of HeLa lysate (35 ug protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

Specification

Product Description	Goat polyclonal antibody raised against synthetic peptide of ATP2B1.
Immunogen	A synthetic peptide corresponding to amino acids 312-327 at internal region of human ATP2B1.
Sequence	C-KQDGAIENRNKAKAQD
Host	Goat
Theoretical MW (kDa)	150
Reactivity	Human
Specificity	This antibody is expected to recognize both reported isoforms (NP_001001323.1; NP_001673.2).
Form	Liquid
Purification	Antigen affinity purification
Recommend Usage	ELISA (1:64000) Western Blot (0.03-0.1 ug/mL) The optimal working dilution should be determined by the end user.
Storage Buffer	In 0.5 mg/mL Tris saline, pH 7.3 (0.02% sodium azide, 0.5% BSA)

Storage Instruction	Store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

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- Enzyme-linked Immunoabsorbent Assay

Gene Info — ATP2B1

Entrez GeneID	490
Protein Accession#	NP_001001323.1;NP_001673.2
Gene Name	ATP2B1
Gene Alias	PMCA1, PMCA1kb
Gene Description	ATPase, Ca++ transporting, plasma membrane 1
Omim ID	108731
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene belongs to the family of P-type primary ion transport ATPases c haracterized by the formation of an aspartyl phosphate intermediate during the reaction cycle. The se enzymes remove bivalent calcium ions from eukaryotic cells against very large concentration g radients and play a critical role in intracellular calcium homeostasis. The mammalian plasma me mbrane 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 diffe rent isoforms and splice variants is regulated in a developmental, tissue- and cell type-specific m anner, suggesting that these pumps are functionally adapted to the physiological needs of particul ar cells and tissues. This gene encodes the plasma membrane calcium ATPase isoform 1. Altern atively spliced transcript variants encoding different isoforms have been identified. [provided by R efSeq
Other Designations	plasma membrane calcium ATPase 1|plasma membrane calcium pump|plasma membrane calci um-ATPase

Pathway

- Calcium signaling pathway

Disease

- Cardiovascular Diseases
- Diabetes Mellitus
- Edema
- Genetic Predisposition to Disease
- Hypertension