

Mouse anti-Human ATP2B1 Monoclonal Antibody | anti-ATP2B1 antibody

ATP2B1 (Plasma Membrane Calcium-transporting ATPase 1, PMCA1, Plasma Membrane Calcium ATPase Isoform 1, Plasma Membrane Calcium Pump Isoform 1, PMCA1) (MaxLight 550)

CATALOG # AAA26691	HOST Mouse	REACTIVITY Human	APPLICATIONS Western Blot
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PRODUCT SYNONYMS

ATP2B1; Monoclonal Antibody; ATP2B1 (Plasma Membrane Calcium-transporting ATPase 1; PMCA1; Plasma Membrane Calcium ATPase Isoform 1; Plasma Membrane Calcium Pump Isoform 1; PMCA1) (MaxLight 550); anti-ATP2B1 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG2a,k
Clone Number	3E2
Specificity	Recognizes human ATP2B1.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight550.
Concentration	0.95mg/mL (varies by lot)
Sequence	MGDMANNSVA YSGVKNSLKE ANHDGDFGIT LAELRALMEL RSTDALRKIQ ESYGDVYGIC TKLKTSPNEG LSGNPADLER REAVFGKNFI PPKPKPT
Sequence Length	1220
Applicable Applications for anti-ATP2B1 antibody	FLISA, WB (Western Blot)
Application Notes	Optimal dilutions to be determined by the researcher. Applications are based on unconjugated antibody
Immunogen	Partial recombinant protein corresponding to aa1-97 from human ATP2B1 with GST tag. MW of the GST tag alone is 26kD.
Conjugate	MaxLight550
Note	Light sensitive
Preparation and Storage	Store product at 4 degrees C in the dark. DO NOT FREEZE! Stable at 4 degrees C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight550 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.

IMAGES



WB (Western Blot)
Western Blot detection against immunogen using AAA26691 (36.41kD).



FLISA
Detection limit recombinant GST tagged ATP2B1 is ~0.3ng/mL using AAA26691 as a capture antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-ATP2B1 antibody	MaxLight550 is a new Yellow-Green photostable dye conjugate comparable to Alexa Fluor546, 555, DyLight549 , Cy3, TRITC and offers better labeling efficiency, brighter imaging and increased immunodetection. Absorbance (550nm); Emission (575nm); Extinction Coefficient 150,000. Calcium-transporting ATPase belongs to the cation transport ATPase (P-type) family and plays a critical role in intracellular calcium homeostasis. Mammalian Calcium-transporting ATPases are encoded by at least four separate genes with multiple isoforms produced by alternative splicing.
Product Categories/Family for anti-ATP2B1 antibody	Antibodies; Enzymes; ATPase

NCBI AND UNIPROT INFORMATION

NCBI GI #	48255945
NCBI GeneID	490
NCBI Accession #	NP_001673
NCBI GenBank Nucleotide #	NM_001682
UniProt Accession #	P20020
NCBI Official Full Name	plasma membrane calcium-transporting ATPase 1 isoform 1b
NCBI Official Synonym Full Names	ATPase plasma membrane Ca2+ transporting 1
NCBI Official Symbol	ATP2B1
NCBI Official Synonym Symbols	PMCA1; PMCA1kb
NCBI Protein Information	plasma membrane calcium-transporting ATPase 1
UniProt Protein Name	Plasma membrane calcium-transporting ATPase 1
UniProt Gene Name	ATP2B1
UniProt Synonym Gene Names	PMCA1
UniProt Entry Name	AT2B1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.