ATP2A1 rabbit monoclonal antibody

Catalog # H00000487-K Size 100 ug x up to 3

Specification

Product Description	Rabbit monoclonal antibody raised against a human ATP2A1 peptide using ARM Technology.
Immunogen	A synthetic peptide of human ATP2A1 is used for rabbit immunization. Customer or Abnova will decide on the preferred peptide sequence.
Host	Rabbit
Library Construction	Non-fusion antibody library from rabbit spleen (ARM Technology).
Expression	Overexpression vector and transfection into 293H cell line.
Reactivity	Human
Purification	Protein A
Isotype	IgG
Quality Control Testing	Antibody reactive against human ATP2A1 peptide by ELISA and mammalian transfected lysate by Western Blot.
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Deliverable	Up to three rabbit IgG clones of 100 ug each will be delivered to customer.
Note	1. Customer may provide cell or tissue lysate for antibody screening. 2. Rabbit monoclonal antibody generated by ARM technology is amenable to antibody engineering in cluding $F(ab)_2$, IgG, scFv and different Fc and non-Fc conjugates per customer request.

Applications

- Western Blot (Transfected lysate)

  Protocol Download

- ELISA

Gene Info — ATP2A1

Entrez GeneID	487
GeneBank Accession#	ATP2A1
Gene Name	ATP2A1
Gene Alias	ATP2A, SERCA1
Gene Description	ATPase, Ca++ transporting, cardiac muscle, fast twitch 1
Omim ID	108730 601003
Gene Ontology	Hyperlink
Gene Summary	This gene encodes one of the SERCA Ca(2+)-ATPases, which are intracellular pumps located in the sarcoplasmic or endoplasmic reticula of muscle cells. This enzyme catalyzes the hydrolysis of ATP coupled with the translocation of calcium from the cytosol to the sarcoplasmic reticulum lume n, and is involved in muscular excitation and contraction. Mutations in this gene cause some autos omal recessive forms of Brody disease, characterized by increasing impairment of muscular relax ation during exercise. Alternative splicing results in two transcript variants encoding different isofo rms. [provided by RefSeq
Other Designations	ATPase, Ca++ transporting, fast twitch 1|OTTHUMP00000162562|SR Ca(2+)-ATPase 1|calcium pump 1|calcium-transporting ATPase sarcoplasmic reticulum type, fast twitch skeletal muscle isof orm|endoplasmic reticulum class 1/2 Ca(2+) ATPase|sarcoplasmic/endoplasm

Pathway

- Calcium signaling pathway