

ATP2A2 rabbit monoclonal antibody

Catalog # H00000488-K

Size 100 ug x up to 3

Specification

Product Description	Rabbit monoclonal antibody raised against a human ATP2A2 peptide using ARM Technology.
Immunogen	A synthetic peptide of human ATP2A2 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 ATP2A2 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 including 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 — ATP2A2

Entrez GeneID	488
GeneBank Accession#	ATP2A2
Gene Name	ATP2A2
Gene Alias	ATP2B, DAR, DD, DKFZp686P0211, FLJ20293, FLJ38063, MGC45367, SERCA2
Gene Description	ATPase, Ca ⁺⁺ transporting, cardiac muscle, slow twitch 2
Omim ID	101900 108740 124200
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 into the sarcoplasmic reticulum lumen, and is involved in regulation of the contraction/relaxation cycle. Mutations in this gene cause Darier-White disease, also known as keratosis follicularis, an autosomal dominant skin disorder characterized by loss of adhesion between epidermal cells and abnormal keratinization. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq]
Other Designations	ATPase, Ca ⁺⁺ dependent, slow-twitch, cardiac muscle-2 ATPase, Ca ⁺⁺ transporting, slow twitch 2 SR Ca(2+)-ATPase 2 calcium pump 2 calcium-transporting ATPase sarcoplasmic reticulum type, slow twitch skeletal muscle isoform cardiac Ca ²⁺ ATPase endoplasmic r

Pathway

- [Arrhythmogenic right ventricular cardiomyopathy \(ARVC\)](#)
- [Calcium signaling pathway](#)
- [Cardiac muscle contraction](#)
- [Hypertrophic cardiomyopathy \(HCM\)](#)

Disease

- [Asthma](#)

- [Bipolar Disorder](#)
- [Cardiovascular Diseases](#)
- [Colon cancer](#)
- [Colonic Neoplasms](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Hypertension](#)
- [Hypertrophy](#)
- [Keratosis Follicularis](#)
- [Lung Neoplasms](#)