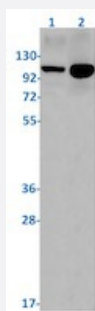


RecomAb™

ATP2A2 recombinant monoclonal antibody, clone R09-1G2

Catalog # RAB01920 Size 100 uL

Applications



Western Blot

Western blot analysis of Lane 1: K562 and Lane 2: Hela lysates with ATP2A2 recombinant monoclonal antibody, clone R09-1G2 (Cat # RAB01920).

Immunocytochemistry

Immunocytochemical staining of Hela with ATP2A2 recombinant monoclonal antibody, clone R09-1G2 (Cat # RAB01920). (A) ATP2A2 (green) and (B) DAPI (blue).

Specification

Product Description	Rabbit recombinant monoclonal antibody raised against human ATP2A2.
Antibody Species	Rabbit
Immunogen	Original antibody is raised against a synthetic peptide corresponding to human ATP2A2.
Theoretical MW (kDa)	Calculated MW: 115 k
Reactivity	Human, Rat
Form	Liquid

Purification	Affinity purification
Isotype	IgG
Recommend Usage	Immunocytochemistry Immunofluorescence (1:50-1:200) Immunohistochemistry (1:50-1:100) Western Blot (1:500-1:1000) The optimal working dilution should be determined by the end user.
Storage Buffer	In 50 mM Tris-Glycine, pH 7.4 (0.15 M NaCl, 40% Glycerol, 0.01% Sodium azide and 0.05% 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 should be handled by trained staff only.

Applications

- Western Blot

Western blot analysis of Lane 1: K562 and Lane 2: Hela lysates with ATP2A2 recombinant monoclonal antibody, clone R09-1G2 (Cat # RAB01920).

- Immunohistochemistry

- Immunocytochemistry

Immunocytochemical staining of Hela with ATP2A2 recombinant monoclonal antibody, clone R09-1G2 (Cat # RAB01920). (A) ATP2A2 (green) and (B) DAPI (blue).

- Immunofluorescence

Gene Info — ATP2A2

Entrez GeneID	488
Protein Accession#	P16615
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 Ca2+ 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](#)

- [Keratin Follicularis](#)
- [Lung Neoplasms](#)