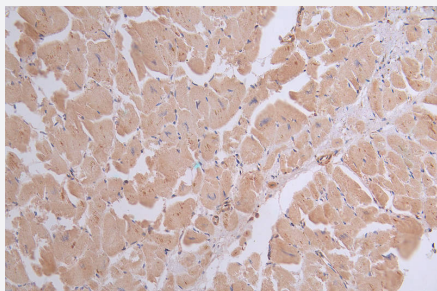


RecomAb™

ATP2A2 recombinant monoclonal antibody, clone 20D1

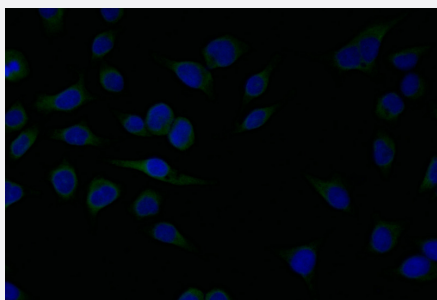
Catalog # RAB07727 Size 100 uL

Applications



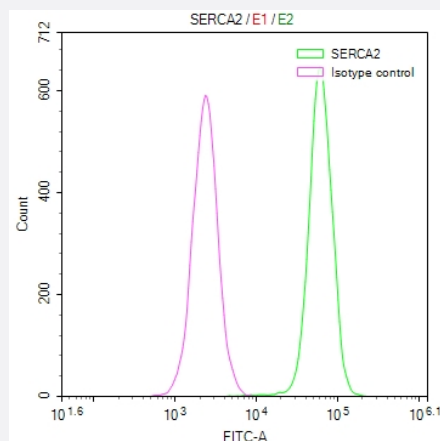
Immunohistochemistry

Immunohistochemistry image of ATP2A2 recombinant monoclonal antibody, clone 20D1 diluted at 1:50 and staining in paraffin-embedded human heart tissue performed on a Leica Bond™ system.



Immunofluorescence

Immunofluorescence staining of MCF-7 Cells with ATP2A2 recombinant monoclonal antibody, clone 20D1 at 1:25, counter-stained with DAPI.



Flow Cytometry

Overlay Peak curve showing Hela cells stained with ATP2A2 recombinant monoclonal antibody, clone 20D1 (red line) at 1:50.

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.
Reactivity	Human
Form	Liquid
Purification	Affinity chromatography purification
Isotype	IgG
Recommend Usage	ELISA Flow Cytometry(1:50-1:200) Immunohistochemistry(1:50-1:200) Immunofluorescence(1:20-1:200) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH7.4 (150 mM NaCl, 0.02% sodium azide and 50% glycerol)
Storage Instruction	Store at -20°C or -80°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

- Immunohistochemistry

Immunohistochemistry image of ATP2A2 recombinant monoclonal antibody, clone 20D1 diluted at 1:50 and staining in paraffin-embedded human heart tissue performed on a Leica Bond™ system.

- Immunofluorescence

Immunofluorescence staining of MCF-7 Cells with ATP2A2 recombinant monoclonal antibody, clone 20D1 at 1:25, counter-stained with DAPI.

- Enzyme-linked Immunoabsorbent Assay

- Flow Cytometry

Overlay Peak curve showing Hela cells stained with ATP2A2 recombinant monoclonal antibody, clone 20D1 (red line) at 1:50.

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 Daner-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](#)
- [Keratosis Follicularis](#)
- [Lung Neoplasms](#)