

ATP2A1 Antibody (R30155)

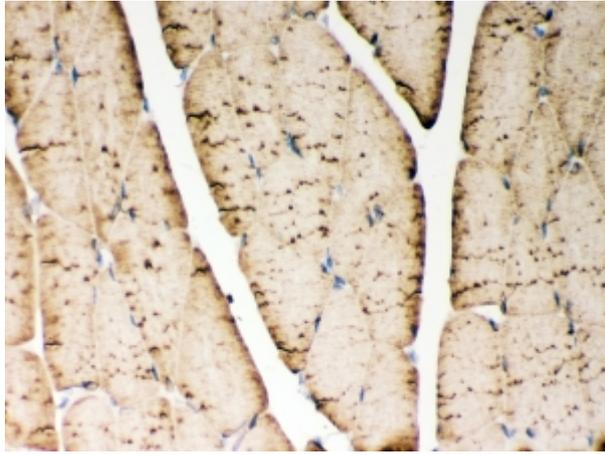
Catalog No.	Formulation	Size
R30155	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

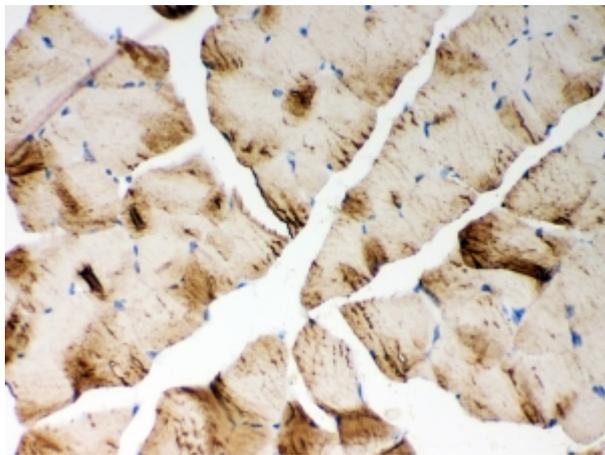
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide
Gene ID	487
Applications	Western blot : 0.5-1ug/ml IHC (FFPE) : 0.5-1ug/ml
Limitations	This ATP2A1 antibody is available for research use only.



Western blot testing of ATP2A1 antibody and Lane 1: rat skeletal muscle; 2: mouse skeletal muscle; Predicted size: 110KD; Observed size: 110KD



IHC-P: ATP2A1 antibody testing of rat skeletal muscle tissue



IHC-P: ATP2A1 antibody testing of mouse skeletal muscle tissue

Description

SERCA1, also called ATP2A1, is an enzyme that in humans is encoded by the ATP2A1 gene. This gene encodes one of the SERCA Ca²⁺-ATPases, which are intracellular pumps located in the sarcoplasmic or endoplasmic reticula of muscle cells. The SERCA1 gene is mapped to 16p11.2. This enzyme catalyzes the hydrolysis of ATP coupled with the translocation of calcium from the cytosol to the sarcoplasmic reticulum lumen, and is involved in muscular excitation and contraction. It has been determined that the human SERCA1 gene is 26 kb long and contains 23 exons, of which can be alternatively spliced. Mutations in this gene cause some autosomal recessive forms of Brody disease, characterized by increasing impairment of muscular relaxation during exercise.

Application Notes

The stated application concentrations are suggested starting amounts. Titration of the ATP2A1 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

An amino acid sequence from the N-terminus of human ATP2A1 (MEAAHAKTTEECLAYFGVSETTGLTPDQVKRN) was used as the immunogen for this ATP2A1 antibody.

Storage

After reconstitution, the ATP2A1 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.