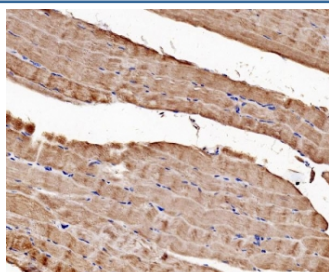


CACNA1S Antibody (RQ6164)

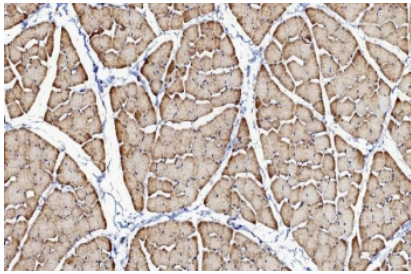
Catalog No.	Formulation	Size
RQ6164	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

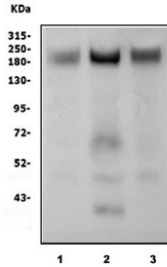
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat, Monkey
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose and 0.0125% sodium azide
UniProt	Q13698
Applications	Western Blot : 1-2ug/ml Immunohistochemistry (FFPE) : 2-5ug/ml Flow Cytometry : 1-3ug/million cells Direct ELISA : 0.1-0.5ug/ml
Limitations	This CACNA1S antibody is available for research use only.



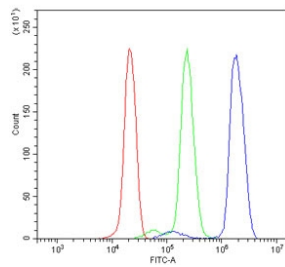
IHC staining of FFPE human skeletal muscle with CACNA1S antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE rat skeletal muscle with CACNA1S antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



Western blot testing of 1) monkey skeletal muscle, 2) rat skeletal muscle and 3) mouse skeletal muscle lysate with CACNA1S antibody. Predicted molecular weight ~220 kDa.



Flow cytometry testing of human U937 cells with CACNA1S antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= CACNA1S antibody.

Description

Cav1.1 also known as the calcium channel, voltage-dependent, L type, alpha 1S subunit, (CACNA1S), is a protein which in humans is encoded by the CACNA1S gene. This gene encodes one of the five subunits of the slowly inactivating L-type voltage-dependent calcium channel in skeletal muscle cells. Mutations in this gene have been associated with hypokalemic periodic paralysis, thyrotoxic periodic paralysis and malignant hyperthermia susceptibility.

Application Notes

Optimal dilution of the CACNA1S antibody should be determined by the researcher.

Immunogen

A human recombinant partial protein (amino acids E1583-C1779) was used as the immunogen for the CACNA1S antibody.

Storage

After reconstitution, the CACNA1S antibody can be stored for up to one month at 4°C. For long-term, aliquot and store at -20°C. Avoid repeated freezing and thawing.

