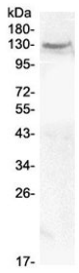
CACNA2D2 Antibody (RQ4540)

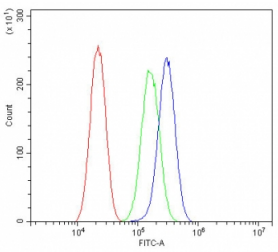
Catalog No.	Formulation	Size
RQ4540	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose and 0.025% sodium azide
UniProt	Q9NY47
Applications	Western Blot : 0.5-1ug/ml Flow Cytometry : 1-3ug/10^6 cells Direct ELISA : 0.1-0.5ug/ml (human recombinant protein)
Limitations	This CACNA2D2 antibody is available for research use only.



Western blot testing of human MCF7 cell lysate with CACNA2D2 antibody at 0.5ug/ml. Predicted molecular weight ~130 kDa.



FACS testing of human A549 cells

Flow cytometry testing of human A549 cells with CACNA2D2 antibody at 1ug/10^6 cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= CACNA2D2 antibody.

Description

Voltage-dependent calcium channel subunit alpha2delta-2 is a protein that in humans is encoded by the CACNA2D2 gene. This gene is mapped to 3p21.31. It encodes a member of the alpha-2/delta subunit family, a protein in the voltage-dependent calcium channel complex. Calcium channels mediate the influx of calcium ions into the cell upon membrane polarization and consist of a complex of alpha-1, alpha-2/delta, beta, and gamma subunits in a 1:1:1:1 ratio. Various versions of each of these subunits exist, either expressed from similar genes or the result of alternative splicing. Research on a highly similar protein in rabbit suggests the protein described in this record is cleaved into alpha-2 and delta subunits. Alternate transcriptional splice variants of this gene, encoding different isoforms, have been characterized.

Application Notes

Optimal dilution of the CACNA2D2 antibody should be determined by the researcher.

Immunogen

Amino acids Q66-Q284 from the human protein were used as the immunogen for the CACNA2D2 antibody.

Storage

After reconstitution, the CACNA2D2 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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