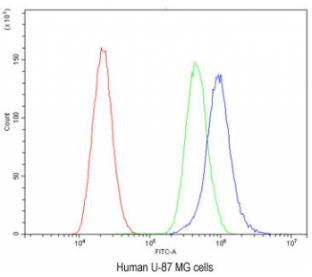
CaV1.3 Antibody (R31742)

Catalog No.	Formulation	Size
R31742	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	776
Applications	Western Blot : 0.5-1ug/ml Flow Cytometry : 1-3ug/10^6 cells
Limitations	This CaV1.3 antibody is available for research use only.

Western blot testing of CaV1.3 antibody and Lane 1: rat brain; 2: mouse brain lysate. Predicted molecular weight: ~245 kDa.



Flow cytometry testing of human U-87 MG cells with CaV1.3 antibody at 1ug/10^6 cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= CaV1.3 antibody.

Description

CACNA1D is also known as PASNA, SANDD or Cav1.3. Voltage-dependent calcium channels mediate the entry of calcium ions into excitable cells, and are also involved in a variety of calcium-dependent processes, including muscle contraction, hormone or neurotransmitter release, and gene expression. Calcium channels are multisubunit complexes composed of alpha-1, beta, alpha-2/delta, and gamma subunits. The channel activity is directed by the pore-forming alpha-1 subunit, whereas the others act as auxiliary subunits regulating this activity. The distinctive properties of the calcium channel types are related primarily to the expression of a variety of alpha-1 isoforms, namely alpha-1A, B, C, D, E, and S. This gene encodes the alpha-1D subunit. Several transcript variants encoding different isoforms have been found for this gene.

Application Notes

Variations in secondary/substrate sensitivities and test protocols may require the CaV1.3 antibody to be titrated for optimal performance.

Immunogen

Human partial recombinant protein (AA 1-180) was used as the immunogen for this CaV1.3 antibody.

Storage

After reconstitution, the CaV1.3 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.