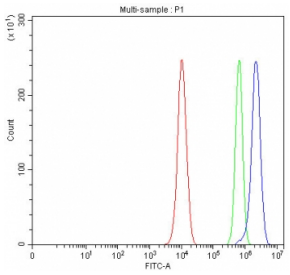
PCDHA13 Antibody / Protocadherin alpha-13 (RQ8641)

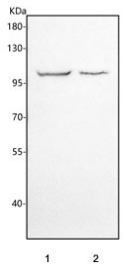
Catalog No.	Formulation	Size
RQ8641	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 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
UniProt	Q9Y5I0
Applications	Western blot: 0.5-1ug/ml Flow cytometry: 1-3ug/million cells ELISA: 0.1-0.5ug/ml
Limitations	This PCDHA13 antibody is available for research use only.



Flow cytometry testing of fixed and permeabilized human PC-3 cells with PCDHA13 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= PCDHA13 antibody.



Western blot testing of human 1) PC-3 and 2) U-2 OS cell lysate with PCDHA13 antibody. Predicted molecular weight ~102 kDa but could be seen at higher molecular weights due to glycosylation.

Description

This gene is a member of the protocadherin alpha gene cluster, one of three related gene clusters tandemly linked on chromosome five that demonstrate an unusual genomic organization similar to that of B-cell and T-cell receptor gene clusters. The alpha gene cluster is composed of 15 cadherin superfamily genes related to the mouse CNR genes and consists of 13 highly similar and 2 more distantly related coding sequences. The tandem array of 15 N-terminal exons, or variable exons, are followed by downstream C-terminal exons, or constant exons, which are shared by all genes in the cluster. The large, uninterrupted N-terminal exons each encode six cadherin ectodomains while the C-terminal exons encode the cytoplasmic domain. These neural cadherin-like cell adhesion proteins are integral plasma membrane proteins that most likely play a critical role in the establishment and function of specific cell-cell connections in the brain. Alternative splicing has been observed and additional variants have been suggested but their full-length nature has yet to be determined.

Application Notes

Optimal dilution of the PCDHA13 antibody should be determined by the researcher.

Immunogen

An E.coli-derived human recombinant protein (amino acids N165-E349) was used as the immunogen for the PCDHA13 antibody.

Storage

After reconstitution, the PCDHA13 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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