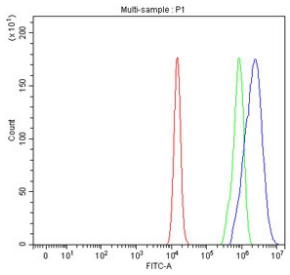
Protocadherin alpha 12 Antibody / PCDHA12 (RQ8711)

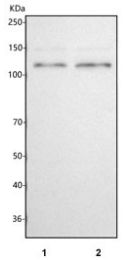
Catalog No.	Formulation	Size
RQ8711	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

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 chromatography
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	Q9UN75
Applications	Western Blot : 1-2ug/ml Flow Cytometry : 1-3ug/million cells ELISA : 0.1-0.5ug/ml
Limitations	This Protocadherin alpha 12 antibody is available for research use only.



Flow cytometry testing of fixed human U-2 OS cells with Protocadherin alpha 12 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= Protocadherin alpha 12 antibody.



Western blot testing of human 1) RT4 and 2) MCF7 cell lysate with Protocadherin alpha 12 antibody. Predicted molecular weight ~101 kDa.

Description

Protocadherin alpha-12 is a protein that in humans is encoded by the PCDHA12 gene. 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 Protocadherin alpha 12 antibody should be determined by the researcher.

Immunogen

An E.coli-derived human recombinant protein (amino acids K219-V365) was used as the immunogen for the Protocadherin alpha 12 antibody.

Storage

After reconstitution, the Protocadherin alpha 12 Antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.