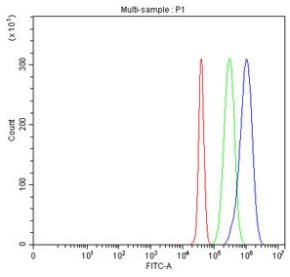
PCDHGC3 Antibody / Protocadherin gamma C3 (RQ8817)

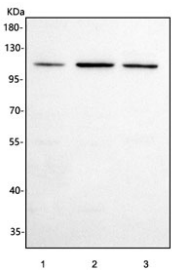
Catalog No.	Formulation	Size
RQ8817	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 days
Species Reactivity	Human, Rat
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	Q9UN70
Applications	Western blot: 1-2ug/ml Flow cytometry: 1-3ug/million cells ELISA: 0.1-0.5ug/ml
Limitations	This PCDHGC3 antibody is available for research use only.



Flow cytometry testing of fixed human JK cells with PCDHGC3 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= PCDHGC3 antibody.



Western blot testing of 1) human 293T, 2) human Jurkat and 3) rat C6 cell lysate with PCDHGC3 antibody. Predicted molecular weight ~101 kDa.

Description

Protocadherin gamma-C3 is a protein that in humans is encoded by the PCDHGC3 gene. This gene is a member of the protocadherin gamma gene cluster, one of three related clusters tandemly linked on chromosome five. These gene clusters have an immunoglobulin-like organization, suggesting that a novel mechanism may be involved in their regulation and expression. The gamma gene cluster includes 22 genes divided into 3 subfamilies. Subfamily A contains 12 genes, subfamily B contains 7 genes and 2 pseudogenes, and the more distantly related subfamily C contains 3 genes. The tandem array of 22 large, variable region exons are followed by a constant region, containing 3 exons shared by all genes in the cluster. Each variable region exon encodes the extracellular region, which includes 6 cadherin ectodomains and a transmembrane region. The constant region exons encode the common cytoplasmic region. These neural cadherin-like cell adhesion proteins most likely play a critical role in the establishment and function of specific cell-cell connections in the brain. Alternative splicing has been described for the gamma cluster genes.

Application Notes

Optimal dilution of the PCDHGC3 antibody should be determined by the researcher.

Immunogen

An E.coli-derived human recombinant protein (amino acids E498-E804) was used as the immunogen for the PCDHGC3 antibody.

Storage

After reconstitution, the PCDHGC3 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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