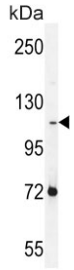
Protocadherin alpha-C2 Antibody / PCDHAC2 (F54638)

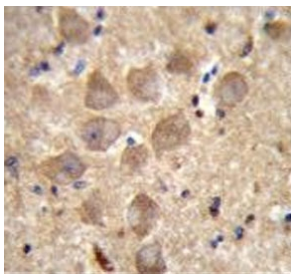
Catalog No.	Formulation	Size
F54638-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F54638-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

Bulk quote request

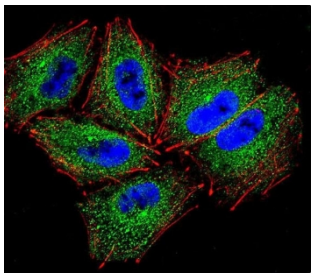
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Antigen affinity purified
UniProt	Q9Y5I4
Applications	Flow Cytometry : 1:25 (1x10e6 cells) Immunofluorescence : 1:25 Immunohistochemistry (FFPE) : 1:25 Western Blot : 1:500-1:2000
Limitations	This Protocadherin alpha-C2 antibody is available for research use only.



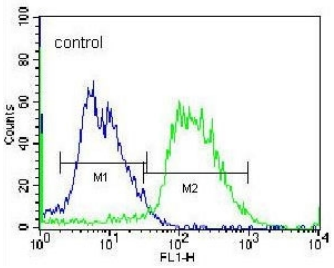
Western blot testing of human NCI-H460 cell lysate with Protocadherin alpha-C2 antibody. Predicted molecular weight ~109 kDa.



IHC testing of FFPE human brain tissue with Protocadherin alpha-C2 antibody. HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to staining.



Immunofluorescent staining of human NCI-H460 cells with Protocadherin alpha-C2 antibody (green), DAPI nuclear stain (blue) and anti-Actin (red).



Flow cytometry testing of NCI-H460 cells with Protocadherin alpha-C2 antibody; Blue=isotype control, Green= Protocadherin alpha-C2 antibody.

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

The stated application concentrations are suggested starting points. Titration of the Protocadherin alpha-C2 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

A portion of amino acids 616-644 from the human protein was used as the immunogen for the Protocadherin alpha-C2 antibody.

Storage

Aliquot the Protocadherin alpha-C2 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.