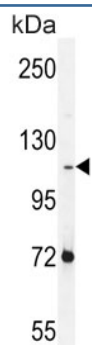


## Protocadherin alpha-C2 Antibody / PCDHAC2 (F54638)

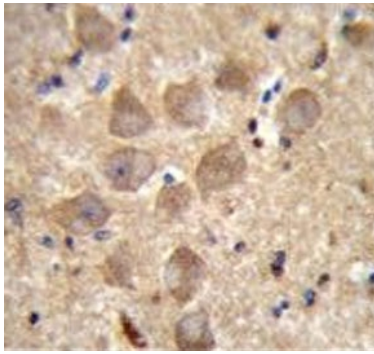
| Catalog No.   | Formulation                                | Size    |
|---------------|--------------------------------------------|---------|
| F54638-0.4ML  | In 1X PBS, pH 7.4, with 0.09% sodium azide | 0.4 ml  |
| F54638-0.08ML | In 1X PBS, pH 7.4, with 0.09% sodium azide | 0.08 ml |

[Bulk quote request](#)

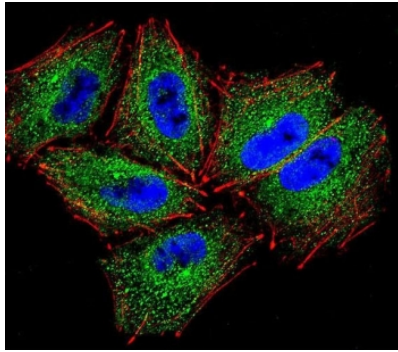
|                           |                                                                                                                                                   |
|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Availability</b>       | 1-3 business days                                                                                                                                 |
| <b>Species Reactivity</b> | Human                                                                                                                                             |
| <b>Format</b>             | Purified                                                                                                                                          |
| <b>Clonality</b>          | Polyclonal (rabbit origin)                                                                                                                        |
| <b>Isotype</b>            | Rabbit Ig                                                                                                                                         |
| <b>Purity</b>             | Antigen affinity purified                                                                                                                         |
| <b>UniProt</b>            | Q9Y5I4                                                                                                                                            |
| <b>Applications</b>       | Flow cytometry : 1:25 (1x10 <sup>6</sup> cells)<br>Immunofluorescence : 1:25<br>Immunohistochemistry (FFPE) : 1:25<br>Western blot : 1:500-1:2000 |
| <b>Limitations</b>        | This Protocadherin alpha-C2 antibody is available for research use only.                                                                          |



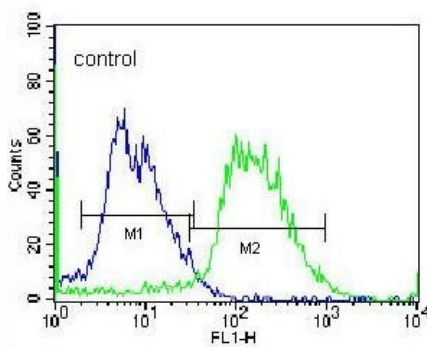
Western blot testing of human NCI-H460 cell lysate with Protocadherin alpha-C2 antibody.  
Predicted molecular weight ~109 kDa.



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.

Ordering:Phone:858.663.9055 | Fax:1.267.821.0800 | Email:[info@nsjbio.com](mailto:info@nsjbio.com)

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