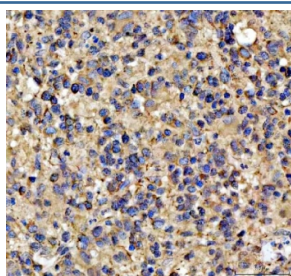


## NOTCH2 Antibody (RQ5542)

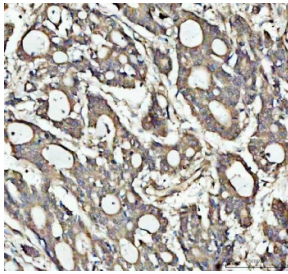
| Catalog No. | Formulation                                           | Size   |
|-------------|-------------------------------------------------------|--------|
| RQ5542      | 0.5mg/ml if reconstituted with 0.2ml sterile DI water | 100 ug |

**Bulk quote request**

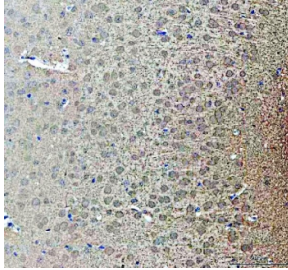
|                           |                                                                                                                                            |
|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Availability</b>       | 1-3 business days                                                                                                                          |
| <b>Species Reactivity</b> | Human, Mouse, Rat                                                                                                                          |
| <b>Format</b>             | Antigen affinity purified                                                                                                                  |
| <b>Host</b>               | Rabbit                                                                                                                                     |
| <b>Clonality</b>          | Polyclonal (rabbit origin)                                                                                                                 |
| <b>Isotype</b>            | Rabbit IgG                                                                                                                                 |
| <b>Purity</b>             | Affinity purified                                                                                                                          |
| <b>Buffer</b>             | Lyophilized from 1X PBS with 2% Trehalose                                                                                                  |
| <b>UniProt</b>            | Q04721                                                                                                                                     |
| <b>Localization</b>       | Nuclear, cytoplasmic                                                                                                                       |
| <b>Applications</b>       | Western Blot : 0.5-1ug/ml<br>Flow Cytometry : 1-3ug/million cells<br>Immunohistochemistry (FFPE) : 2-5ug/ml<br>Direct ELISA : 0.1-0.5ug/ml |
| <b>Limitations</b>        | This NOTCH2 antibody is available for research use only.                                                                                   |



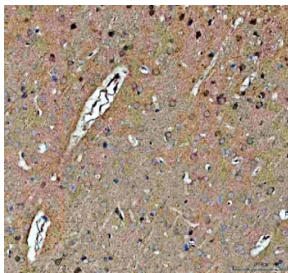
IHC staining of FFPE human glioblastoma tissue with NOTCH2 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



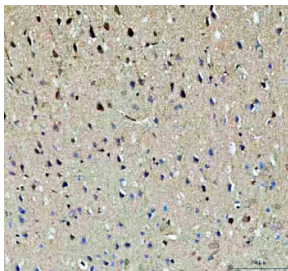
IHC staining of FFPE human lung cancer tissue with NOTCH2 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



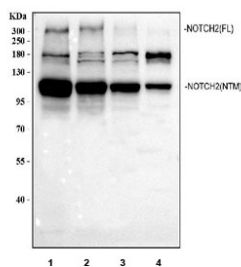
IHC staining of FFPE mouse brain tissue with NOTCH2 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



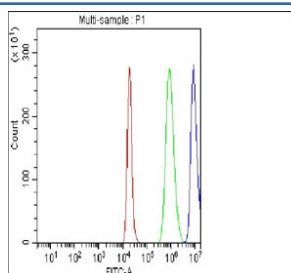
IHC staining of FFPE rat brain tissue with NOTCH2 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE rat brain tissue with NOTCH2 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



Western blot testing of 1) human U-87 MG, 2) human 293T, 3) human MCF7 and 4) human SH-SY5Y cell lysate with NOTCH2 antibody. Predicted molecular weight ~265 kDa (full length) and ~110 kDa (intracellular/cytoplasmic domain).



Flow cytometry testing of fixed and permeabilized human SH-SY5Y cells with NOTCH2 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= NOTCH2 antibody.

## Description

Neurogenic locus notch homolog protein 2 also known as notch 2 is a protein that in humans is encoded by the NOTCH2 gene. It is mapped to 1p12. This gene encodes a member of the Notch family. Members of this Type 1 transmembrane protein family share structural characteristics including an extracellular domain consisting of multiple epidermal growth factor-like (EGF) repeats, and an intracellular domain consisting of multiple, different domain types. Notch family members play a role in a variety of developmental processes by controlling cell fate decisions. The Notch signaling network is an evolutionarily conserved intercellular signaling pathway which regulates interactions between physically adjacent cells. In *Drosophila*, notch interaction with its cell-bound ligands (delta, serrate) establishes an intercellular signaling pathway that plays a key role in development. Homologues of the notch-ligands have also been identified in human, but precise interactions between these ligands and the human notch homologues remain to be determined. This protein is cleaved in the trans-Golgi network, and presented on the cell surface as a heterodimer. This protein functions as a receptor for membrane bound ligands, and may play a role in vascular, renal and hepatic development. Two transcript variants encoding different isoforms have been found for this gene.

## Application Notes

Optimal dilution of the NOTCH2 antibody should be determined by the researcher.

## Immunogen

A human recombinant protein (amino acids H2194-A2471) was used as the immunogen for the NOTCH2 antibody.

## Storage

After reconstitution, the NOTCH2 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.