

Anti-NRG2 Antibody
Catalog # ABO10951**Specification**

Anti-NRG2 Antibody - Product Information

Application	WB
Primary Accession	O14511
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized

Description

Rabbit IgG polyclonal antibody for Pro-neuregulin-2, membrane-bound isoform(NRG2) detection. Tested with WB in Human;Mouse;Rat.

Reconstitution

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-NRG2 Antibody - Additional Information

Gene ID 9542

Other Names

Pro-neuregulin-2, membrane-bound isoform, Pro-NRG2, Neuregulin-2, NRG-2, Divergent of neuregulin-1, DON-1, Neural- and thymus-derived activator for ERBB kinases, NTAK, NRG2, NTAK

Calculated MW

91679 MW KDa

Application Details

Western blot, 0.1-0.5 µg/ml, Human, Rat, Mouse

Subcellular Localization

Pro-neuregulin-2, membrane-bound isoform: Cell membrane ; Single-pass type I membrane protein . Does not seem to be active. .

Tissue Specificity

Restricted to the cerebellum in the adult.

Protein Name

Pro-neuregulin-2, membrane-bound isoform(Pro-NRG2)

Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na₂HPO₄, 0.05mg Thimerosal, 0.05mg NaN₃.

Immunogen

A synthetic peptide corresponding to a sequence in the middle region of human NRG2(289-306aa NGRKNSRLQFNKVKVEDA), identical to the related rat sequence, and different from the related mouse sequence by one amino acid.

Purification

Immunogen affinity purified.

Cross Reactivity

No cross reactivity with other proteins

Storage

At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.

Sequence Similarities

Belongs to the neuregulin family.

Anti-NRG2 Antibody - Protein Information

Name NRG2

Synonyms NTAK

Function

Direct ligand for ERBB3 and ERBB4 tyrosine kinase receptors. Concomitantly recruits ERBB1 and ERBB2 coreceptors, resulting in ligand-stimulated tyrosine phosphorylation and activation of the ERBB receptors. May also promote the heterodimerization with the EGF receptor.

Cellular Location

[Pro-neuregulin-2, membrane-bound isoform]: Cell membrane; Single-pass type I membrane protein. Note=Does not seem to be active.

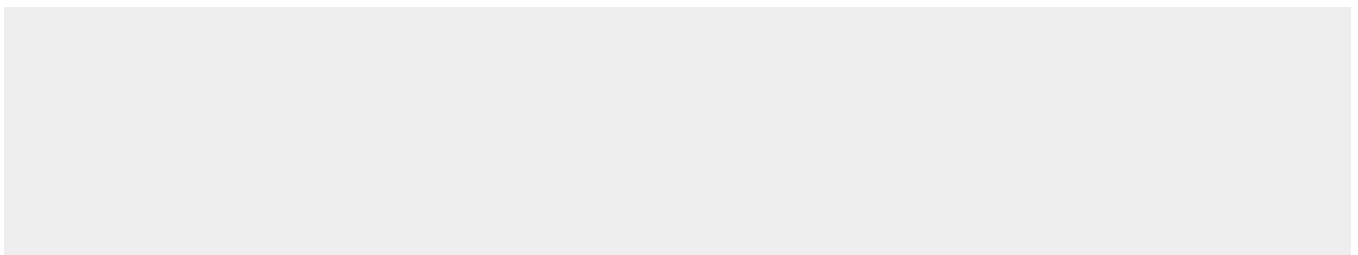
Tissue Location

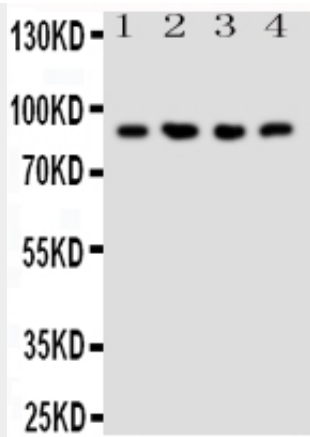
Restricted to the cerebellum in the adult.

Anti-NRG2 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-NRG2 Antibody - Images



Anti-NRG2 antibody, ABO10951, Western blotting All lanes: Anti NRG2 (ABO10951) at 0.5ug/ml
Lane 1: Rat Liver Tissue Lysate at 50ug
Lane 2: COLO320 Whole Cell Lysate at 40ug
Lane 3: SMMC Whole Cell Lysate at 40ug
Lane 4: SW620 Whole Cell Lysate at 40ug
Predicted bind size: 91KD
Observed bind size: 91KD

Anti-NRG2 Antibody - Background

Neuregulin 2, also known as NRG2, DON1 or NTAK, is a protein that in humans is encoded by the NRG2 gene. Neuregulin 2(NRG2) is a novel member of the neuregulin family of growth and differentiation factors. The NRG2 gene is mapped to 5q31.2. Through interaction with the ErbB family of receptors, NRG2 induces the growth and differentiation of epithelial, neuronal, glial, and other types of cells. The human NRG2 gene contains 12 exons and the mouse Nrg2 gene contains 12 exons and spans about 180 kb. The NRG2 genomic structure is similar to that of neuregulin 1(NRG1), another member of the neuregulin family of ligands. NRG1 and NRG2 mediate distinct biological processes by acting at different sites in tissues and eliciting different biological responses in cells. In particular, the neuregulin-ERBB signaling pathways play crucial roles in regulating the proliferation and differentiation of Schwann cells, the myelin-forming cells in the peripheral nervous system.