

Anti-NRG2 Antibody

Catalog # ABO10951

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.

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
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.
Source	Eukaryota
Protein Name	Pro-neuregulin-2, membrane-bound isoform(Pro-NRG2)
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg Thimerosal, 0.05mg NaN ₃ .
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.

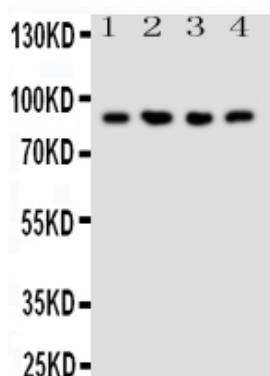
Protein Information

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.

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.

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

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.