

Summary

| | |
|------------------------|---|
| Production Name | Neuregulin-3 Rabbit Polyclonal Antibody |
| Description | Rabbit Polyclonal Antibody |
| Host | Rabbit |
| Application | WB,IHC, |
| Reactivity | Human,Mouse |

Performance

| | |
|---------------------|--|
| Conjugation | Unconjugated |
| Modification | Unmodified |
| Isotype | IgG |
| Clonality | Polyclonal |
| Form | Liquid |
| Storage | Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles. |
| Buffer | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N. |
| Purification | Affinity purification |

Immunogen

| | |
|--------------------------|--|
| Gene Name | NRG3 |
| Alternative Names | NRG3; Pro-neuregulin-3, membrane-bound isoform; Pro-NRG3 |
| Gene ID | 10718.0 |
| SwissProt ID | P56975.The antiserum was produced against synthesized peptide derived from the Internal region of human NRG3. AA range:311-360 |

Application

| | |
|-------------------------|---|
| Dilution Ratio | WB 1:500 - 1:2000 IHC 1:100 - 1:300. ELISA: 1:10000.. |
| Molecular Weight | 80kD |

Background

Product Name: Neuregulin-3 Rabbit Polyclonal Antibody
Catalog #: AP Rab14594

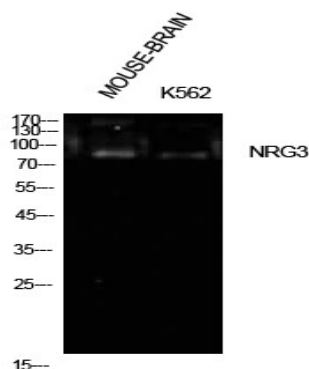


This gene is a member of the neuregulin gene family. This gene family encodes ligands for the transmembrane tyrosine kinase receptors ERBB3 and ERBB4 - members of the epidermal growth factor receptor family. Ligand binding activates intracellular signaling cascades and the induction of cellular responses including proliferation, migration, differentiation, and survival or apoptosis. This gene encodes neuregulin 3 (NRG3). NRG3 has been shown to activate the tyrosine phosphorylation of its cognate receptor, ERBB4, and is thought to influence neuroblast proliferation, migration and differentiation by signalling through ERBB4. NRG3 also promotes mammary differentiation during embryogenesis. Linkage studies have implicated this gene as a susceptibility locus for schizophrenia and schizoaffective disorder. Alternative splicing results in multiple transcript variants encoding distinct isoforms. Additional transcrdevelopmental stage:Isoform 3 is expressed in fetal brain but not in other fetal tissues.,domain:ERBB receptor binding is elicited entirely by the EGF-like domain.,domain:The cytoplasmic domain may be involved in the regulation of trafficking and proteolytic processing. Regulation of the proteolytic processing involves initial intracellular domain dimerization.,function:Direct ligand for the ERBB4 tyrosine kinase receptor. Binding results in ligand-stimulated tyrosine phosphorylation and activation of the receptor. Does not bind to the EGF receptor, ERBB2 or ERBB3 receptors. May be a survival factor for oligodendrocytes.,PTM:Extensive glycosylation precedes the proteolytic cleavage (By similarity). Isoform 3 is glycosylated.,PTM:Proteolytic cleavage close to the plasma membrane on the external face leads to the release of the soluble growth factor form.,similarity:Belongs to the neuregulin family.,similarity:Contains 1 EGF-like domain.,subcellular location:Does not seem to be active.,subcellular location:Isoform 3 is also proteolytically released as a soluble form.,tissue specificity:Highly expressed in most regions of the brain with the exception of corpus callosum. Expressed at lower level in testis. Not detected in heart, placenta, lung, liver, skeletal muscle, kidney, pancreas, spleen, thymus, prostate, ovary, small intestine, colon and peripheral blood leukocytes.,

Research Area

ErbB_HER;

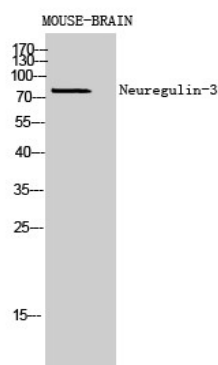
Image Data



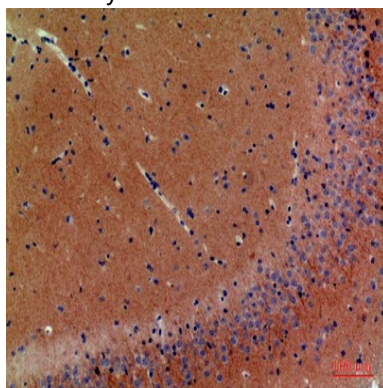
Western Blot analysis of mouse brain, K562 cells using Neuregulin-3 Polyclonal Antibody. Antibody was diluted at 1:1000.

Secondary antibody was diluted at 1:20000

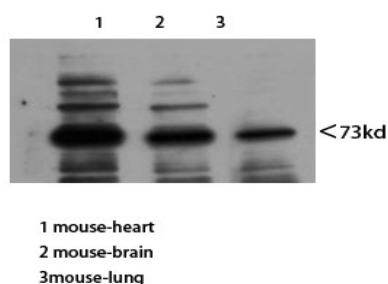
Product Name: Neuregulin-3 Rabbit Polyclonal Antibody
Catalog #: APRab14594



Western Blot analysis of MOUSE-BRAIN cells using Neuregulin-3 Polyclonal Antibody diluted at 1 : 1000. Secondary antibody was diluted at 1:20000



Immunohistochemical analysis of paraffin-embedded mouse-brain, antibody was diluted at 1:200



Western Blot analysis of mouse-heart mouse-brain mouse-lung using Neuregulin-3 Polyclonal Antibody diluted at 1:800.
Secondary antibody was diluted at 1:20000

Note

For research use only.