

Polyclonal Antibody to Neuregulin 3 - Aff - Purified

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| Alternate names: | NRG3, Pro-NRG3, Pro-neuregulin-3, membrane-bound isoform |
| Catalog No.: | AP16585PU-N |
| Quantity: | 0.1 mg |
| Concentration: | 0.5 mg/ml |
| Background: | <p>NRG3, which belongs to the neuregulin family, is a direct ligand for the ERBB4 tyrosine kinase receptor. Binding results in ligand stimulated tyrosine phosphorylation and activation of the receptor. NRG3 does not bind to the EGF receptor, ERBB2 or ERBB3 receptors. The protein exists as an type I membrane protein and as a proteolytically released soluble growth factor form. The membrane-bound form does not appear to be active. NRG3 is highly expressed in most regions of the brain with the exception of corpus callosum, and is expressed at lower level in testis. It is not detected in heart, placenta, lung, liver, skeletal muscle, kidney, pancreas, spleen, thymus, prostate, ovary, small intestine, colon and peripheral blood leukocytes. The NRG3 cytoplasmic domain may be involved in the regulation of trafficking and proteolytic processing. Regulation of the proteolytic processing may involve initial intracellular domain dimerization. There are 4 different isoforms.</p> |
| Uniprot ID: | P56975 |
| NCBI: | NP_001010848.2 |
| GeneID: | 10718 |
| Host: | Goat |
| Immunogen: | <p>Peptide with sequence from the C Terminus of the protein sequence according to NP_001010848.2 AA Sequence: C-RNEIQRDSALTK</p> |
| Format: | <p>State: Liquid purified IgG fraction. Purification: Ammonium Sulphate Precipitation followed by antigen Affinity Chromatography using the immunizing peptide. Buffer System: Tris saline, pH 7.3 containing 0.02% Sodium Azide as preservative and 0.5% BSA as stabilizer.</p> |
| Applications: | <p>Peptide ELISA: Detection Limit: 1/64000. Western Blot: 0.1-0.3 µg/ml. Approx 75kDa band observed in Human Brain (Cerebellum), Mouse and Rat lysates. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.</p> |
| Specificity: | This antibody recognizes Neuregulin 3. |
| Species Reactivity: | <p>Tested: Human, Mouse, Rat. Expected from sequence similarity: Canine.</p> |

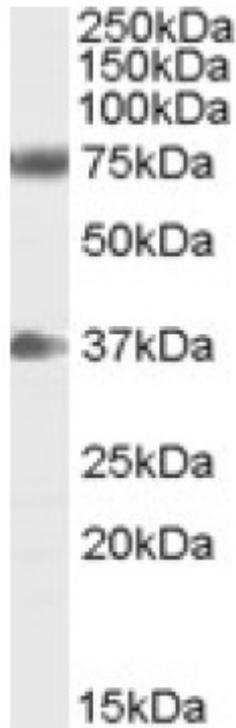
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Add. Information: Calculated Molecular Weight: 75.0 kDa (NP_001010848.2).

Storage: Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.
Avoid repeated freezing and thawing.
Shelf life: one year from despatch.

General References: 1. Hijazi MM, Young PE, Dougherty MK, Bressette DS, Cao TT, Pierce JH, Wong LM, Alimandi M, King CR. NRG-3 in human breast cancers: activation of multiple erbB family proteins. *Int J Oncol.* 1998 Nov;13(5):1061-7.

Pictures:



AP16585PU-N (0.3µg/ml) staining of Human Brain (Cerebellum) lysate (35µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.