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# NRG3 Antibody (C-term) Blocking Peptide
**Synthetic peptide**
**Catalog # BP6224b**

## Specification

### NRG3 Antibody (C-term) Blocking Peptide - Product Information

Primary Accession P56975

### NRG3 Antibody (C-term) Blocking Peptide - Additional Information

**Gene ID** 10718

**Other Names**
Pro-neuregulin-3, membrane-bound isoform, Pro-NRG3, Neuregulin-3, NRG-3, NRG3

**Target/Specificity**
The synthetic peptide sequence used to generate the antibody <a href=/product/products/AP6224b>AP6224b</a> was selected from the C-term region of human NRG3. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

**Format**
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

### NRG3 Antibody (C-term) Blocking Peptide - Protein Information

**Name** NRG3

**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.

**Cellular Location**
[Pro-neuregulin-3, membrane-bound isoform]: Cell membrane; Single-pass type I membrane protein. Note=Does not seem to be active. [Isoform 3]: Cell membrane; Single-pass type I membrane protein. Note=Isoform 3 is also proteolytically released as a soluble form

**Tissue Location**
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

**NRG3 Antibody (C-term) Blocking Peptide - Protocols**

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

- Blocking Peptides

**NRG3 Antibody (C-term) Blocking Peptide - Images**

**NRG3 Antibody (C-term) Blocking Peptide - Background**

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.

**NRG3 Antibody (C-term) Blocking Peptide - References**

Zhang, D., et al., Proc. Natl. Acad. Sci. U.S.A. 94(18):9562-9567 (1997).Gizatullin, R.Z., et al., Chromosome Res. 8 (6), 560 (2000) (): ().