

**Neuregulin-3 rabbit pAb****Cat#: orb771290 (Manual)**

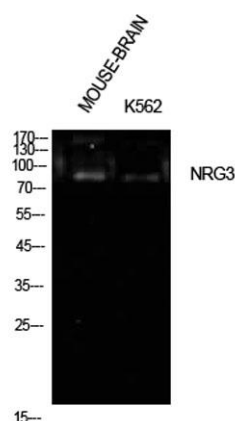
For research use only. Not intended for diagnostic use.

<b>Product Name</b>	Neuregulin-3 rabbit pAb
<b>Host species</b>	Rabbit
<b>Applications</b>	WB;IHC;IF;ELISA
<b>Species Cross-Reactivity</b>	Human;Mouse
<b>Recommended dilutions</b>	Western Blot: 1/500 - 1/2000. IHC-p: 1:100-1:300. ELISA: 1/10000. Not yet tested in other applications.
<b>Immunogen</b>	The antiserum was produced against synthesized peptide derived from the Internal region of human NRG3. AA range:311-360
<b>Specificity</b>	Neuregulin-3 Polyclonal Antibody detects endogenous levels of Neuregulin-3 protein.
<b>Formulation</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide..
<b>Storage</b>	Store at -20°C. Avoid repeated freeze-thaw cycles.
<b>Protein Name</b>	Pro-neuregulin-3 membrane-bound isoform
<b>Gene Name</b>	NRG3
<b>Cellular localization</b>	[Pro-neuregulin-3, membrane-bound isoform]: Cell membrane ; Single-pass type I membrane protein . Does not seem to be active. .; [Neuregulin-3]: Secreted .; [Isoform 3]: Cell membrane; Single-pass type I membrane protein. Isoform 3 is also proteolytically released as a soluble form.
<b>Purification</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.

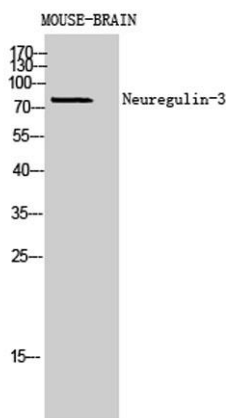
<b>Clonality</b>	Polyclonal
<b>Concentration</b>	1 mg/ml
<b>Observed band</b>	80kD
<b>Human Gene ID</b>	10718
<b>Human Swiss-Prot Number</b>	P56975
<b>Alternative Names</b>	NRG3; Pro-neuregulin-3, membrane-bound isoform; Pro-NRG3

### Background

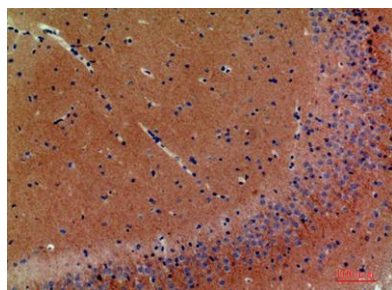
This gene is a member of the neuregulin gene family. This gene family encodes ligands for the transmembrane tyrosine kinase receptors ERBB3 and ERBB4 - members of the epidermal growth factor receptor family. Ligand binding activates intracellular signaling cascades and the induction of cellular responses 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 transcri



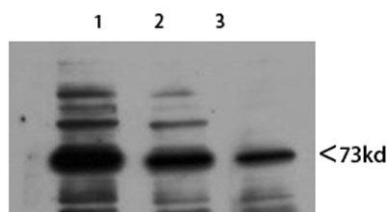
**Western Blot analysis of mouse brain, K562 cells using Neuregulin-3 Polyclonal Antibody. Antibody was diluted at 1:1000. Secondary antibody(catalog#:RS0002) was diluted at 1:20000**



**Western Blot analysis of MOUSE-BRAIN cells using Neuregulin-3 Polyclonal Antibody diluted at 1:1000. Secondary antibody(catalog#:RS0002) 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(catalog#:RS0002) was diluted at 1:20000**

1 mouse-heart  
2 mouse-brain  
3 mouse-lung