

## ARG64239 anti-Neuregulin 3 antibody

Package: 100 µg  
Store at: -20°C

### Summary

Product Description	Goat Polyclonal antibody recognizes Neuregulin 3
Tested Reactivity	Hu, Ms, Rat
Predict Reactivity	Dog
Tested Application	WB
Host	Goat
Clonality	Polyclonal
Isotype	IgG
Target Name	Neuregulin 3
Species	Human
Immunogen	C-RNEIQRDSALTK
Conjugation	Un-conjugated
Alternate Names	Pro-NRG3; pro-NRG3; Pro-neuregulin-3, membrane-bound isoform; HRG3; NRG-3

### Application Instructions

Application table	Application	Dilution
	WB	0.1 - 0.3 µg/ml
Application Note	WB: Recommend incubate at RT for 1h. * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

### Properties

Form	Liquid
Purification	Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.
Buffer	Tris saline (pH 7.3), 0.02% Sodium azide and 0.5% BSA
Preservative	0.02% Sodium azide
Stabilizer	0.5% BSA
Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

## Bioinformation

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### Database links

[GeneID: 10718 Human](#)

[GeneID: 18183 Mouse](#)

[Swiss-port # O35181 Mouse](#)

[Swiss-port # P56975 Human](#)

### 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 transcript variants have been described but their biological validity has not been verified. [provided by RefSeq, Sep 2009]

### Research Area

Cancer antibody; Neuroscience antibody

### Calculated Mw

78 kDa

### PTM

Proteolytic cleavage close to the plasma membrane on the external face leads to the release of the soluble growth factor form.

Extensive glycosylation precedes the proteolytic cleavage (By similarity). Isoform 3 is glycosylated.

## Images

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ARG64239 anti-Neuregulin 3 antibody WB image

Western Blot: Human Brain (Cerebellum) lysate (35 µg protein in RIPA buffer) stained with ARG64239 anti-Neuregulin 3 antibody at 0.3 µg/ml dilution.