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NRG1 Polyclonal Antibody

Catalog Number **PA5-34023**

Product data sheet

Details	
Size	50 µg
Host/Isotope	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Immunogen	Synthetic 15 amino acid peptide from N-Terminus of human NRG1.
Conjugate	Unconjugated
Form	Liquid
Concentration	1 mg/mL
Purification	Antigen affinity chromatography
Storage buffer	PBS
Contains	0.1% sodium azide
Storage Conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

Species Reactivity	
Species reactivity	Human

Tested Applications	Dilution *
Immunohistochemistry (Paraffin) (IHC (P))	5-10 µg/mL

* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.

Product specific information

Percent identity with other species by BLAST analysis: Human, Gorilla, Gibbon (100%) Monkey (93%) Marmoset (80%).

Background/Target Information

Neuregulin 1 (NRG1) was originally identified as a 44-kD glycoprotein that interacts with the NEU/ERBB2 receptor tyrosine kinase to increase its phosphorylation on tyrosine residues. It is known that an extraordinary variety of different isoforms are produced from the NRG1 gene by alternative splicing. These isoforms include heregulins (HRGs), glial growth factors (GGFs) and sensory and motor neuron-derived factor (SMDF). They are tissue-specifically expressed and differ significantly in their structure. The HRG isoforms all contain immunoglobulin (Ig) and epidermal growth factor-like (EGF-like) domains. GGF and GGF2 isoforms contain a kringle-like sequence plus Ig and EGF-like domains; and the SMDF isoform shares only the EGF-like domain with other isoforms. The receptors for all NRG1 isoforms are the ERBB family of tyrosine kinase transmembrane receptors. Through interaction with ERBB receptors, NRG1 isoforms induce the growth and differentiation of epithelial, neuronal, glial, and other types of cells.

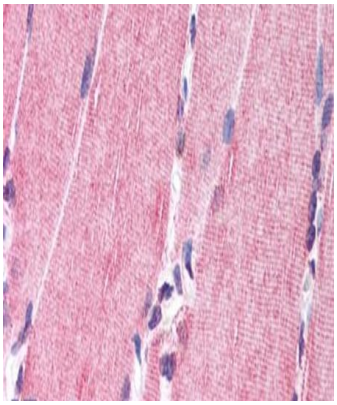
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Product Images For NRG1 Polyclonal Antibody



NRG1 Antibody (PA5-34023) in IHC (P)

Immunohistochemical analysis of formalin-fixed paraffin-embedded human skeletal muscle using a Heregulin/NRG1 polyclonal antibody (Product # PA5-34023). Heat-induced antigen retrieval was performed prior to staining.

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