

Rabbit anti-Human NRG1 Polyclonal Antibody | anti-NRG1 antibody

NRG1 Antibody (Center)

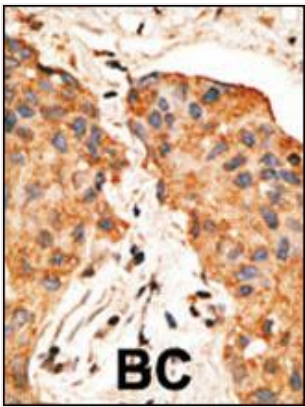
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA288422	Rabbit	Human	Immunohistochemistry, Flow Cytometry, Functional Assay, ELISA, Western Blot

PRODUCT SYNONYMS

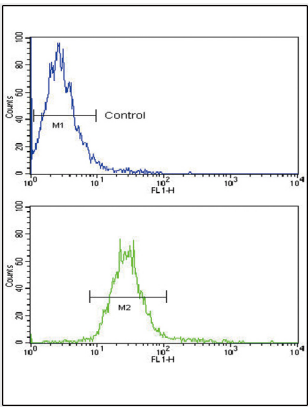
NRG1; Polyclonal Antibody; NRG1 Antibody (Center); Pro-neuregulin-1; membrane-bound isoform; Pro-NRG1; Neuregulin-1; Acetylcholine receptor-inducing activity; ARIA; Breast cancer cell differentiation factor p45; Glial growth factor; Heregulin; HRG; Neu differentiation factor; Sensory and motor neuron-derived factor; GGF; HGL; HRGA; NDF; SMDF; anti-NRG1 antibody

PRODUCT SPECIFICATIONS

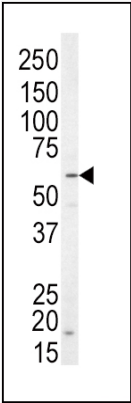
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This NRG1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 198-229 amino acids from the Central region of human NRG1.
Purity/Purification	Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Concentration	Vial Concentration: 1.79 (varies by lot)
Sequence Positions	198-229
Sequence Length	420
Applicable Applications for anti-NRG1 antibody	IHC (Immunohistochemistry), FCM/FACS (Flow Cytometry), ELISA, WB (Western Blot)
Antigen Type	Synthetic Peptide
Antigen Source	HUMAN
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.



IHC (Immunohistochemistry)
Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast carcinoma; HC = hepatocarcinoma.



FCM/FACS (Flow Cytometry)
Flow cytometric analysis of NCI-H460 cells using NRG1 Antibody (Center) (bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



WB (Western Blot)
Western blot analysis of anti-NRG1 Antibody (Center) in SK-BR-3 cell line lysates (35ug/lane). NRG1 (arrow) was detected using the purified Pab.

ADDITIONAL INFORMATION

Related Product Information for anti-NRG1 antibody	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.
Product Categories/Family for anti-NRG1 antibody	Cancer; Developmental biology; Neuroscience; Signal transduction
References	Stove, C., et al., J. Invest. Dermatol. 121(4):802-812 (2003). Adelaide, J., et al., Genes Chromosomes Cancer 37(4):333-345 (2003). Ritch, P.A., et al., J. Biol. Chem. 278(23):20971-20978 (2003). Vermeer, P.D., et al., Nature 422(6929):322-326 (2003). Atlas, E., et al., Mol. Cancer Res. 1(3):165-175 (2003).

NCBI AND UNIPROT INFORMATION

NCBI GI #	236461509
NCBI GeneID	3084
NCBI Accession #	NP_001153467.1; NP_001153471.1; NP_001153473.1; NP_001153477.1; NP_001153480.1; NP_039250.2; NP_039251.2; NP_039252.2; NP_039253.1; NP_039254.1; NP_039256.2; NP_039258.1
NCBI GenBank Nucleotide #	NM_001159995.1
UniProt Accession #	Q02297; O14667; P98202; Q02298; Q02299; Q07110; Q07111; A5YAK4; A5YAK5; A8K1L2; B7Z4Z3; E9PHH4
Molecular Weight	70392
NCBI Official Full Name	pro-neuregulin-1, membrane-bound isoform isoform HRG-beta1c
NCBI Official Synonym Full Names	neuregulin 1
NCBI Official Symbol	NRG1
NCBI Official Synonym Symbols	GGF; HGL; HRG; NDF; ARIA; GGF2; HRG1; HRGA; SMDF; MST131; MSTP131; NRG1-IT2
NCBI Protein Information	pro-neuregulin-1, membrane-bound isoform
UniProt Protein Name	Pro-neuregulin-1, membrane-bound isoform
UniProt Gene Name	NRG1
UniProt Synonym Gene Names	GGF; HGL; HRGA; NDF; SMDF; Pro-NRG1; ARIA; HRG
UniProt Entry Name	NRG1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/polyclonal/nrg1-antibody-immunohistochemistry-flow-cytometry-western-blot-elisa/288422>