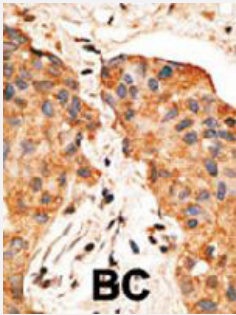


NRG1 polyclonal antibody

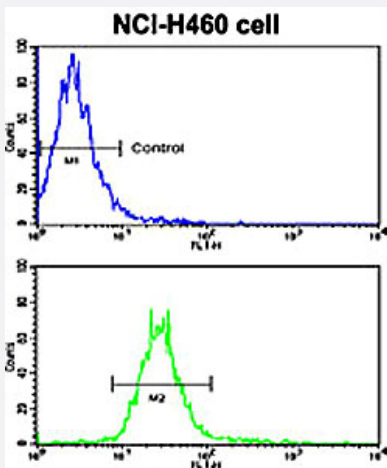
Catalog # PAB4805 Size 400 uL

Applications



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Formalin-fixed and paraffin-embedded human cancer tissue reacted with NRG1 polyclonal antibody (Cat # PAB4805), 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.



Flow Cytometry

Flow cytometric analysis of NCI-H460 cells using NRG1 polyclonal antibody (Cat # PAB4805) (bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of NRG1.
Immunogen	A synthetic peptide (conjugated with KLH) corresponding to internal region of human NRG1.
Host	Rabbit
Reactivity	Human
Form	Liquid

Purification	Saturated Ammonium Sulfate precipitation
Recommend Usage	Flow cytometry (1:10-50) Immunohistochemistry (1:50-100) Western Blot (1:1000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.09% sodium azide)
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

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Flow cytometric analysis of NCI-H460 cells using NRG1 polyclonal antibody (Cat # PAB4805) (bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

Gene Info — NRG1

Entrez GeneID	3084
Protein Accession#	Q02297
Gene Name	NRG1
Gene Alias	ARIA, GGF, GGF2, HGL, HRG, HRG1, HRGA, NDF, SMDF
Gene Description	neuregulin 1
Omim ID	142445 603013
Gene Ontology	Hyperlink

Gene Summary

The protein encoded by this gene was originally identified as a 44-kD glycoprotein that interacts with the NEU/ERBB2 receptor tyrosine kinase to increase its phosphorylation on tyrosine residue s. This protein is a signaling protein that mediates cell-cell interactions and plays critical roles in th e growth and development of multiple organ systems. It is known that an extraordinary variety of di fferent isoforms are produced from this gene through alternative promoter usage and splicing. Th ese isoforms are tissue-specifically expressed and differ significantly in their structure, and thereb y these isoforms are classified into types I, II, III, IV, V and VI. The gene dysregulation has been lin ked to diseases such as cancer, schizophrenia and bipolar disorder (BPD). [provided by RefSeq

Other Designations

glial growth factor|heregulin, alpha (45kD, ERBB2 p185-activator)|neu differentiation factor|neureg ulin 1 isoform HRG-gamma|sensory and motor neuron derived factor

Publication Reference

- [Targeting and suppression of HER3-positive breast cancer by T lymphocytes expressing a heregulin chimeric antigen receptor.](#)

Zuo BL, Yan B, Zheng GX, Xi WJ, Zhang X, Yang AG, Jia LT.
Cancer Immunology, Immunotherapy : CII 2018 Mar; 67(3):393.

Application: Flow Cyt, Human, HEK 293T cells

- [The heregulin/human epidermal growth factor receptor as a new growth factor system in melanoma with multiple ways of deregulation.](#)

Stove C, Stove V, Derycke L, Van Marck V, Mareel M, Bracke M.
The Journal of Investigative Dermatology 2003 Oct; 121(4):802.

Application: WB, Human, MCF-7 cells

- [A recurrent chromosome translocation breakpoint in breast and pancreatic cancer cell lines targets the neuregulin/NRG1 gene.](#)

Adelaide J, Huang HE, Murati A, Alsop AE, Orsetti B, Mozziconacci MJ, Popovici C, Ginestier C, Letessier A, Basset C, Courtay-Cahen C, Jacquemier J, Theillet C, Birnbaum D, Edwards PA, Chaffanet M.
Genes, Chromosomes & Cancer 2003 Aug; 37(4):333.

- [Neuregulin-1 enhances motility and migration of human astrocytic glioma cells.](#)

Ritch PA, Carroll SL, Sontheimer H.
The Journal of Biological Chemistry 2003 Jun; 278(23):20971.

Pathway

- [ErbB signaling pathway](#)

Disease

- [Alzheimer disease](#)
- [Amphetamine-Related Disorders](#)
- [Anoxia](#)
- [Asthma](#)
- [Atherosclerosis](#)
- [Atrophy](#)
- [Attention](#)
- [Autistic Disorder](#)
- [Bipolar Disorder](#)
- [Cardiovascular Diseases](#)
- [Carotid Artery Diseases](#)
- [Chronic Disease](#)
- [Cognition](#)
- [Cognition Disorders](#)
- [Depressive Disorder](#)
- [Diabetes Mellitus](#)
- [Dominance](#)
- [Edema](#)
- [Extraversion \(Psychology\)](#)
- [Genetic Predisposition to Disease](#)
- [Hirschsprung Disease](#)
- [Infant](#)
- [Inhibition \(Psychology\)](#)
- [Intelligence Tests](#)

- [Leukomalacia](#)
- [Memory](#)
- [Mental Disorders](#)
- [Mental Recall](#)
- [Mental Retardation](#)
- [Neuropsychological Tests](#)
- [Neurotic Disorders](#)
- [Obstetric Labor Complications](#)
- [Perceptual Disorders](#)
- [Personality Tests](#)
- [Psychiatric Status Rating Scales](#)
- [Psychomotor Performance](#)
- [Psychoses](#)
- [Psychotic Disorders](#)
- [Reaction Time](#)
- [Recurrence](#)
- [Schizophrenia](#)
- [Schizophrenic Psychology](#)
- [Schizotypal Personality Disorder](#)
- [Space Perception](#)
- [Speech Disorders](#)
- [Startle Reaction](#)
- [Stress](#)
- [Task Performance and Analysis](#)
- [Tobacco Use Disorder](#)