

Datasheet for ABIN5531711  
**anti-Neuregulin 1 antibody (AA 198-229)**



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## Overview

Quantity:	400 µL
Target:	Neuregulin 1 (NRG1)
Binding Specificity:	AA 198-229
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Neuregulin 1 antibody is un-conjugated
Application:	Western Blotting (WB), Flow Cytometry (FACS), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

## Product Details

Immunogen:	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.
Isotype:	Ig Fraction
Purification:	This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis

## Target Details

Target:	Neuregulin 1 (NRG1)
Alternative Name:	NRG1 ( <a href="#">NRG1 Products</a> )
Background:	Neuregulin 1 (NRG1) was originally identified as a 44-kD glycoprotein that interacts with the

## Target Details

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.

Molecular Weight:	70 kDa
Gene ID:	3084
UniProt:	<a href="#">Q02297</a>
Pathways:	<a href="#">RTK Signaling</a> , <a href="#">Fc-epsilon Receptor Signaling Pathway</a> , <a href="#">EGFR Signaling Pathway</a> , <a href="#">Neurotrophin Signaling Pathway</a> , <a href="#">Regulation of Muscle Cell Differentiation</a>

## Application Details

Application Notes:	For WB starting dilution is: 1:1000  For FACS starting dilution is: 1:10~50  For IHC-P starting dilution is: 1:50~100
Restrictions:	For Research Use only

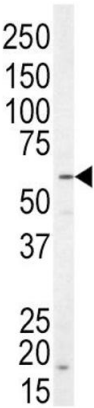
## Handling

Format:	Liquid
Concentration:	1.79 mg/mL
Buffer:	Supplied in PBS with 0.09 % (W/V) sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

# Handling

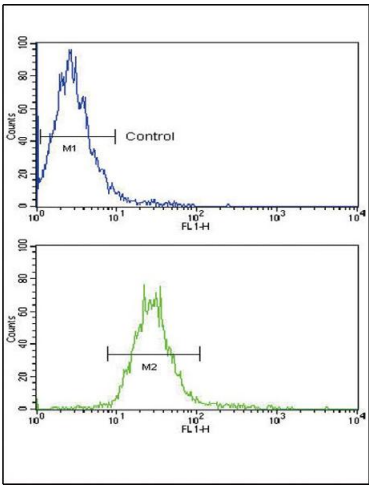
Storage:	4 °C,-20 °C
Storage Comment:	Store at 4°C for three months and -20°C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.

# Images



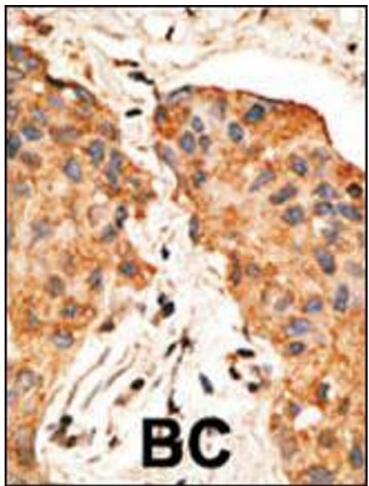
## Western Blotting

**Image 1.** Western blot analysis of anti-NRG1 Antibody in SK-BR-3 cell line lysates (35ug/lane)



## Flow Cytometry

**Image 2.** Flow cytometric analysis of NCI-H460 cells using NRG1 Antibody (bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



## Immunohistochemistry

**Image 3.** 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. BC = breast carcinoma; HC = hepatocarcinoma.