

Datasheet for ABIN1537707
anti-Neuregulin 3 antibody (AA 305-336)



[Go to Product page](#)

2 Images

2 Publications

Overview

Quantity:	400 µL
Target:	Neuregulin 3 (NRG3)
Binding Specificity:	AA 305-336
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Neuregulin 3 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	This NRG3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 305-336 amino acids from the Central region of human NRG3.
Clone:	RB1279-1280
Isotype:	Ig Fraction
Predicted Reactivity:	M
Purification:	This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

Target Details

Target:	Neuregulin 3 (NRG3)
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Target Details

Alternative Name:	NRG3 (NRG3 Products)
Background:	NRG3, which belongs to the neuregulin family, is a direct ligand for the ERBB4 tyrosine kinase receptor. Binding results in ligand-stimulated tyrosine phosphorylation and activation of the receptor. NRG3 does not bind to the EGF receptor, ERBB2 or ERBB3 receptors. The protein exists as an type I membrane protein and as a proteolytically released soluble growth factor form. The membrane-bound form does not appear to be active. NRG3 is highly expressed in most regions of the brain with the exception of corpus callosum, and is expressed at lower level in testis. It is not detected in heart, placenta, lung, liver, skeletal muscle, kidney, pancreas, spleen, thymus, prostate, ovary, small intestine, colon and peripheral blood leukocytes. The NRG3 cytoplasmic domain may be involved in the regulation of trafficking and proteolytic processing. Regulation of the proteolytic processing may involve initial intracellular domain dimerization.
Molecular Weight:	77901
Gene ID:	10718
NCBI Accession:	NP_001010848 , NP_001159445
UniProt:	P56975
Pathways:	RTK Signaling

Application Details

Application Notes:	WB: 1:1000. IHC-P: 1:50~100
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	Purified polyclonal antibody 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.
Storage:	4 °C,-20 °C
Storage Comment:	Maintain refrigerated at 2-8 deg C for up to 6 months. For long term storage store at -20 deg C in small aliquots to prevent freeze-thaw cycles.

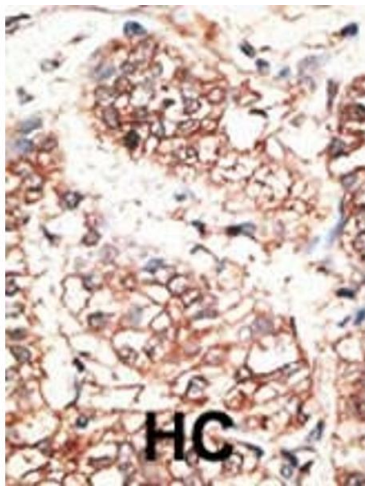
Expiry Date: 6 months

Publications

Product cited in: Boer, Berk, Dean: "Levels of neuregulin 1 and 3 proteins in Brodmann's area 46 from subjects with schizophrenia and bipolar disorder." in: **Neuroscience letters**, Vol. 466, Issue 1, pp. 27-9, (2009) ([PubMed](#)).

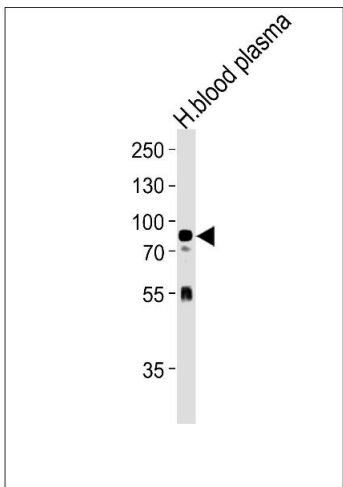
Howard, Panchal, McCarthy, Ashworth: "Identification of the scaramanga gene implicates Neuregulin3 in mammary gland specification." in: **Genes & development**, Vol. 19, Issue 17, pp. 2078-90, (2005) ([PubMed](#)).

Images



Immunohistochemistry (Paraffin-embedded Sections)

Image 1. Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by AEC staining. This data demonstrates the use of this antibody for immunohistochemistry, clinical relevance has not been evaluated. BC = breast carcinoma, HC = hepatocarcinoma.



Western Blotting

Image 2. NRG3 Antibody (Center) (ABIN1537707 and ABIN2840659) western blot analysis in human blood plasma tissue lysates (35 µg/lane). This demonstrates the NRG3 antibody detected the NRG3 protein (arrow).