

Datasheet for ABIN1882105

anti-Neuregulin 2 antibody (C-Term)**2** Images**5** Publications[Go to Product page](#)

Overview

Quantity:	400 µL
Target:	Neuregulin 2 (NRG2)
Binding Specificity:	AA 358-389, C-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Neuregulin 2 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	This NRG2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 358-389 amino acids from the C-terminal region of human NRG2.
Clone:	RB1278
Isotype:	Ig Fraction
Predicted Reactivity:	Rat
Purification:	This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

Target Details

Target:	Neuregulin 2 (NRG2)
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Target Details

Alternative Name:	NRG2 (NRG2 Products)
Background:	Neuregulin 2 (NRG2) is a novel member of the neuregulin family of growth and differentiation factors. Through interaction with the ErbB family of receptors, NRG2 induces the growth and differentiation of epithelial, neuronal, glial, and other types of cells. The gene consists of 12 exons and the genomic structure is similar to that of neuregulin 1 (NRG1), another member of the neuregulin family of ligands. NRG1 and NRG2 mediate distinct biological processes by acting at different sites in tissues and eliciting different biological responses in cells. There are six NRG2 alternatively spliced transcripts which are variable between the epidermal growth factor-like (EGF-like) and the transmembrane domains. The gene is located close to the region for demyelinating Charcot-Marie-Tooth disease locus, but is not responsible for this disease.
Molecular Weight:	91679
NCBI Accession:	NP_001171864 , NP_004874 , NP_053584 , NP_053585 , NP_053586
UniProt:	O14511
Pathways:	RTK Signaling , Fc-epsilon Receptor Signaling Pathway , EGFR Signaling Pathway , Neurotrophin Signaling Pathway

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
Expiry Date:	6 months

Publications

Product cited in:	Yamada, Ichino, Nishii, Sawada, Higashiyama, Ishiguro, Nagatsu: "Characterization of the
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human NTAK gene structure and distribution of the isoforms for rat NTAK mRNA." in: **Gene**, Vol. 255, Issue 1, pp. 15-24, (2000) ([PubMed](#)).

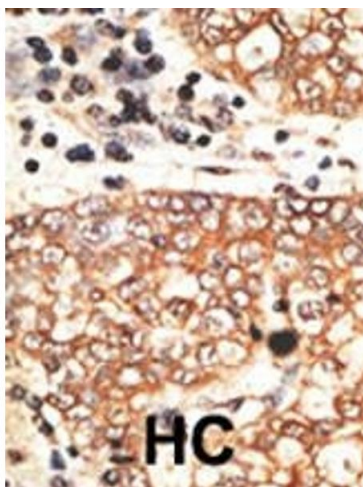
Ring, Chang, Guilbot, Brice, LeGuern, Francke: "The human neuregulin-2 (NRG2) gene: cloning, mapping and evaluation as a candidate for the autosomal recessive form of Charcot-Marie-Tooth disease linked to 5q." in: **Human genetics**, Vol. 104, Issue 4, pp. 326-32, (1999) ([PubMed](#)).

Higashiyama, Horikawa, Yamada, Ichino, Nakano, Nakagawa, Miyagawa, Matsushita, Nagatsu, Taniguchi, Ishiguro: "A novel brain-derived member of the epidermal growth factor family that interacts with ErbB3 and ErbB4." in: **Journal of biochemistry**, Vol. 122, Issue 3, pp. 675-80, (1998) ([PubMed](#)).

Carraway, Weber, Unger, Ledesma, Yu, Gassmann, Lai: "Neuregulin-2, a new ligand of ErbB3/ErbB4-receptor tyrosine kinases." in: **Nature**, Vol. 387, Issue 6632, pp. 512-6, (1997) ([PubMed](#)).

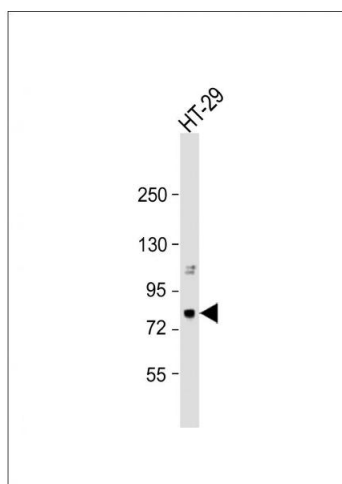
Busfield, Michnick, Chickering, Revett, Ma, Woolf, Comrack, Dussault, Woolf, Goodearl, Gearing: "Characterization of a neuregulin-related gene, Don-1, that is highly expressed in restricted regions of the cerebellum and hippocampus." in: **Molecular and cellular biology**, Vol. 17, Issue 7, pp. 4007-14, (1997) ([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. Anti-NRG2 Antibody at 1:1000 dilution + HT-29 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 92 kDa Blocking/Dilution buffer: 5 % NFDM/TBST.