

Datasheet for ABIN2854306
anti-Neuregulin 1 antibody

3 Images

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Overview

Quantity:	100 µL
Target:	Neuregulin 1 (NRG1)
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Neuregulin 1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunocytochemistry (ICC), Immunofluorescence (IF)

Product Details

Immunogen:	Recombinant protein encompassing a sequence within the center region of human Neuregulin-1. The exact sequence is proprietary.
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Characteristics:	Rabbit Polyclonal antibody to Neuregulin-1 Neuregulin-1 antibody [C1C3]
Purification:	Purified by antigen-affinity chromatography.

Target Details

Target:	Neuregulin 1 (NRG1)
Alternative Name:	neuregulin 1 (NRG1 Products)

Target Details

Background:	<p>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.</p> <p>Cellular Localization: Pro-neuregulin-1 , membrane-bound isoform: Cell membrane, Single-pass type I membrane protein , Neuregulin-1: Secreted , Isoform 8: Nucleus , Isoform 9: Secreted , Isoform 10: Membrane, Single-pass type I membrane protein</p>
Molecular Weight:	70 kDa
Gene ID:	3084
UniProt:	Q02297
Pathways:	RTK Signaling , Fc-epsilon Receptor Signaling Pathway , EGFR Signaling Pathway , Neurotrophin Signaling Pathway , Regulation of Muscle Cell Differentiation

Application Details

Application Notes:	WB: 1:500-1:3000. Optimal dilutions/concentrations should be determined by the researcher. Not tested in other applications.
Comment:	Positive Control: 293T , mouse brain , rat brain
Restrictions:	For Research Use only

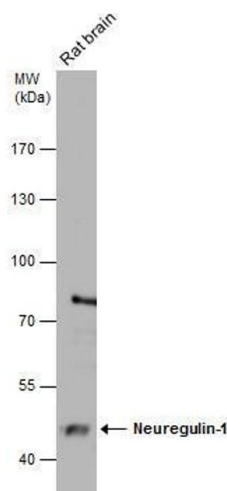
Handling

Format:	Liquid
Concentration:	1 mg/mL
Buffer:	1XPBS (pH 7), 1 % BSA, 20 % Glycerol, 0.01 % Thimerosal
Preservative:	Thimerosal (Merthiolate)

Handling

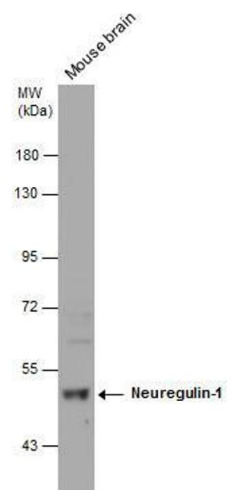
Precaution of Use:	This product contains Thimerosal (Merthiolate): a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Store as concentrated solution. Centrifuge briefly prior to opening vial. For short-term storage (1-2 weeks), store at 4°C. For long-term storage, aliquot and store at -20°C or below. Avoid multiple freeze-thaw cycles.

Images



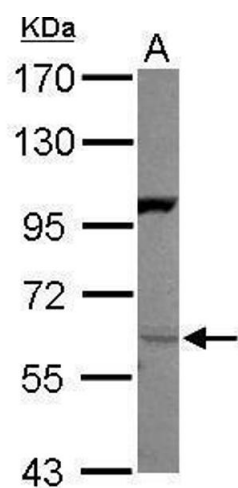
Western Blotting

Image 1. WB Image Rat tissue extract (50 µg) was separated by 7.5% SDS-PAGE, and the membrane was blotted with Neuregulin-1 antibody [C1C3], diluted at 1:2000.



Western Blotting

Image 2. WB Image Mouse tissue extract (50 µg) was separated by 7.5% SDS-PAGE, and the membrane was blotted with Neuregulin-1 antibody [C1C3], diluted at 1:2000.



Western Blotting

Image 3. WB Image Sample (30 ug of whole cell lysate) A:
293T 7.5% SDS PAGE antibody diluted at 1:2000