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Datasheet for ABIN1881587 anti-Neuregulin 3 antibody (AA 688-717)

2 Images

2 Publications



Overview

Quantity:	400 µL
Target:	Neuregulin 3 (NRG3)
Binding Specificity:	AA 688-717
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

Immunogen:	This NRG3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 688-717 amino acids of human NRG3.
Clone:	RB2201
Isotype:	IgG
Purification:	This antibody is purified through a protein A column, followed by peptide affinity purification.

Target Details

Target:	Neuregulin 3 (NRG3)
Alternative Name:	NRG3 (NRG3 Products)
Background:	NRG3, which belongs to the neuregulin family, is a direct ligand for the ERBB4 tyrosine kinase

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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.
77901
NP_001010848, NP_001159445

NCBI Accession:	NP_001010848, NP_001159445
UniProt:	P56975
Pathways:	RTK Signaling

Application Details

Molecular Weight:

Application Notes:	WB: 1:1000. IHC-P: 1:10~50
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
Dublications	

Publications

Product cited in:

Sun, Sun, Chen, Liao, He, Wang, Chen, Hu, Qiu: "microRNA-27b shuttled by mesenchymal stem

cell-derived exosomes prevents sepsis by targeting JMJD3 and downregulating NF- $\!\kappa B$

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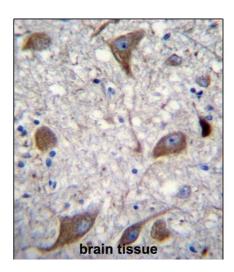
Reithmair, Buschmann, Märte, Kirchner, Hagl, Kaufmann, Pfob, Chouker, Steinlein, Pfaffl, Schelling: "Cellular and extracellular miRNAs are blood-compartment-specific diagnostic targets in sepsis." in: **Journal of cellular and molecular medicine**, Vol. 21, Issue 10, pp. 2403-2411, (2018) (PubMed).

Youn, Friesen, Kishimoto, Henne, Kurat, Ye, Ceccarelli, Sicheri, Kohlwein, McMahon, Andrews: " Dissecting BAR domain function in the yeast Amphiphysins Rvs161 and Rvs167 during endocytosis." in: **Molecular biology of the cell**, Vol. 21, Issue 17, pp. 3054-69, (2010) (PubMed).

Qian, Shi, Pang, Wu, Yu, Li, Wang, Zhou: "[Identification and expression of two new secretory proteins associated with prostate cancer]." in: **Yi chuan = Hereditas / Zhongguo yi chuan xue hui bian ji**, Vol. 32, Issue 3, pp. 235-41, (2010) (PubMed).

Hwangbo, Kim, Lee, Lee: "Activation of the integrin effector kinase focal adhesion kinase in cancer cells is regulated by crosstalk between protein kinase Calpha and the PDZ adapter protein mda-9/Syntenin." in: **Cancer research**, Vol. 70, Issue 4, pp. 1645-55, (2010) (PubMed).

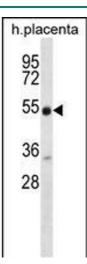
Images



Immunohistochemistry (Paraffin-embedded Sections)

Image 1. NRG3 Antibody (C-term) (ABIN1881587 and ABIN2840660) immunohistochemistry analysis in formalin fixed and paraffin embedded human brain tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of NRG3 Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.

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Western Blotting

Image 2. NRG3 Antibody (ABIN1881587 and ABIN2840660) western blot analysis in human placenta tissue lysates (35 μ g/lane). This demonstrates the NRG3 antibody detected the NRG3 protein (arrow).

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