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Datasheet for ABIN3044035

anti-Neuregulin 1 antibody (C-Term)

5 Images

1 Publication

Overview

Quantity:	100 µg
Target:	Neuregulin 1 (NRG1)
Binding Specificity:	AA 617-636, C-Term
Reactivity:	Human, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Neuregulin 1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunocytochemistry (ICC), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Purpose:	Rabbit IgG polyclonal antibody for Pro-neuregulin-1, membrane-bound isoform(NRG1) detection. Tested with WB, IHC-P, IHC-F, ICC in Human,Mouse,Rat.
Immunogen:	A synthetic peptide corresponding to a sequence at the C-terminus of human NRG1(617-636aa RFSTQEEIQARLSSVIANQD), different from the related rat and mouse sequences by one amino acids.
Sequence:	RFSTQEEIQA RLSSVIANQD
Isotype:	IgG
Cross-Reactivity (Details):	Predicted Cross Reactivity: mouse No cross reactivity with other proteins. Predicted Cross Reactivity: Species predicted to be fit for the product based on sequence

Product Details

similarities.

Characteristics: Rabbit IgG polyclonal antibody for Pro-neuregulin-1, membrane-bound isoform(NRG1) detection. Tested with WB, IHC-P, IHC-F, ICC in Human,Mouse,Rat.
Gene Name: neuregulin 1
Protein Name: Pro-neuregulin-1, membrane-bound isoform

Purification: Immunogen affinity purified.

Target Details

Target: Neuregulin 1 (NRG1)

Alternative Name: NRG1 ([NRG1 Products](#))

Background: NRG1(Neuregulin 1), also known as ARIA, NDF or HRGA, is a protein that in humans is encoded by the NRG1 gene. NRG1 is one of four proteins in the neuregulin family that act on the EGFR family of receptors. By in situ hybridization of a tritium-labeled probe to human metaphase spreads, Orr-Urtreger et al.(1993) localized the NDF gene to 8p21-p12. In mouse embryos 14.5 days postcoitum, Orr-Urtreger et al.(1993) found that NDF expression is confined predominantly to the central and peripheral nervous systems, including the neuroepithelium that lines the lateral ventricles of the brain, the ventral horn of the spinal cord, and the intestinal as well as dorsal root ganglia.

Synonyms: Acetylcholine receptor inducing activity antibody|Acetylcholine receptor-inducing activity antibody|ARIA antibody|Breast cancer cell differentiation factor p45 antibody|GGF antibody|GGF2 antibody|Glial growth factor antibody|heregulin antibody|heregulin, alpha(45kD, ERBB2 p185-activator) antibody|HGL antibody|HRG antibody|HRG1 antibody|HRGA antibody|MST131 antibody|NDF antibody|Neu differentiation factor antibody|Neuregulin 1 antibody|neuregulin 1 type IV beta 1a antibody|neuregulin 1 type IV beta 3 antibody|Neuregulin-1 antibody|NRG 1 antibody|nrg1 antibody|NRG1_HUMAN antibody|OTTHUMP00000225398 antibody|OTTHUMP00000225419 antibody|OTTHUMP00000225420 antibody|OTTHUMP00000225421 antibody|OTTHUMP00000225422 antibody|OTTHUMP00000225477 antibody|OTTHUMP00000225545 antibody|OTTHUMP00000230603 antibody|OTTHUMP00000230605 antibody|Pro-NRG1 antibody|ProNRG1 antibody|Sensory and motor neuron-derived factor antibody|SMDF antibody

UniProt: [Q02297](#)

Pathways: [RTK Signaling](#), [Fc-epsilon Receptor Signaling Pathway](#), [EGFR Signaling Pathway](#), [Neurotrophin](#)

Target Details

Signaling Pathway, Regulation of Muscle Cell Differentiation

Application Details

Application Notes:	WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human, Rat, Predicted Species: Mouse IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Human, Rat, Predicted Species: Mouse, Epitope Retrieval by Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the staining of formalin/paraffin sections. IHC-F: Concentration: 0.5-1 µg/mL, Tested Species: Rat, Predicted Species: Human, Mouse ICC: Concentration: 0.5-1 µg/mL, Tested Species: Human, Predicted Species: Mouse, Rat Notes: Tested Species: Species with positive results. Predicted Species: Species predicted to be fit for the product based on sequence similarities. Other applications have not been tested. Optimal dilutions should be determined by end users.
Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P), IHC(F) and ICC.
Restrictions:	For Research Use only

Handling

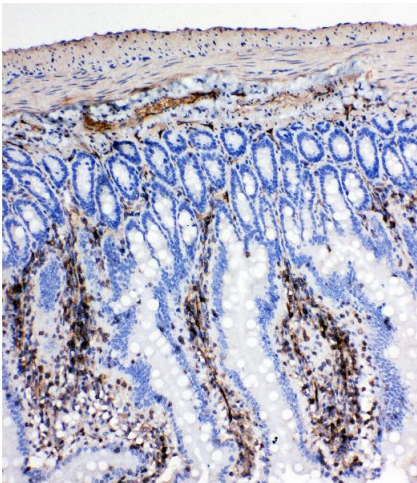
Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ , 0.05 mg Thimerosal, 0.05 mg Sodium azide.
Preservative:	Thimerosal (Merthiolate), Sodium azide
Precaution of Use:	This product contains Sodium azide and Thimerosal (Merthiolate): POISONOUS AND HAZARDOUS SUBSTANCES which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.
Expiry Date:	12 months

Publications

Product cited in: Lang, Schulte, Goddard, Hedrick, Schulte, Wei, Schmiedt: "Transplantation of mouse embryonic stem cells into the cochlea of an auditory-neuropathy animal model: effects of timing after injury." in: **Journal of the Association for Research in Otolaryngology : JARO**, Vol. 9, Issue 2, pp. 225-40, (2008) ([PubMed](#)).

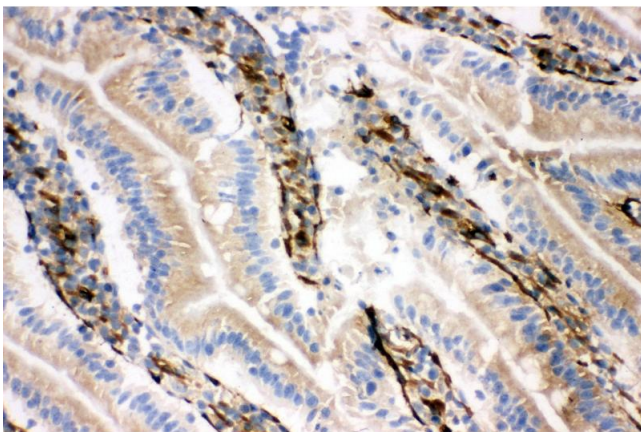
Lang, Ebihara, Schmiedt, Minamiguchi, Zhou, Smythe, Liu, Ogawa, Schulte: "Contribution of bone marrow hematopoietic stem cells to adult mouse inner ear: mesenchymal cells and fibrocytes." in: **The Journal of comparative neurology**, Vol. 496, Issue 2, pp. 187-201, (2006) ([PubMed](#)).

Images



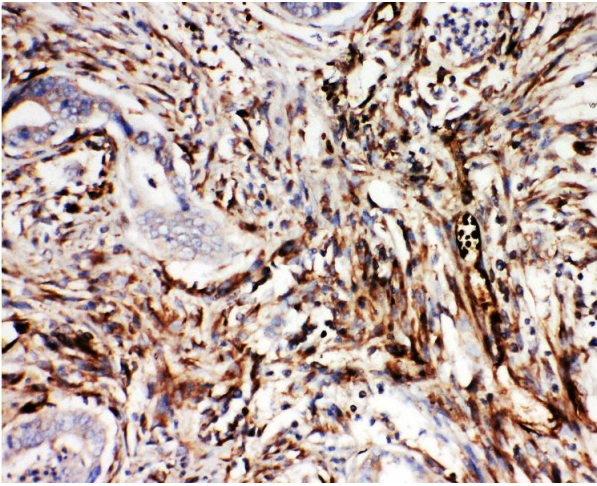
Immunohistochemistry

Image 1. Anti-NRG1 antibody, IHC(P) IHC(P): Rat Intestine Tissue



Immunohistochemistry

Image 2. Anti-NRG1 antibody, IHC(F) IHC(F): Rat Intestine Tissue



Immunohistochemistry

Image 3. Anti-NRG1 antibody, IHC(P) IHC(P): Human Intestinal Cancer Tissue

Please check the [product details page](#) for more images. Overall 5 images are available for ABIN3044035.