

Datasheet for ABIN1049151

anti-Neuregulin 1 antibody (Internal Region)



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2 Images

Overview

Quantity:	50 µg
Target:	Neuregulin 1 (NRG1)
Binding Specificity:	Internal Region
Reactivity:	Human, Monkey
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Neuregulin 1 antibody is un-conjugated
Application:	Immunohistochemistry (IHC), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Brand:	IHC-plus™
Immunogen:	Synthetic 17 amino acid peptide from internal region of human NRG1. Percent identity with other species by BLAST analysis: Human, Gorilla, Monkey, Marmoset (100%), Gibbon (94%), Mouse, Rat, Hamster, Elephant, Bat, Horse, Pig, Platypus (82%). Type of Immunogen: Synthetic peptide
Specificity:	Human NRG1. BLAST analysis of the peptide immunogen showed no homology with other human proteins.
Predicted Reactivity:	Percent identity with other species by BLAST analysis: Human, Gorilla, Monkey, Marmoset (100%) Gibbon (94%) Mouse, Rat, Hamster, Elephant, Bat, Horse, Pig, Platypus (82%).
Purification:	Immunoaffinity purified

Target Details

Target:	Neuregulin 1 (NRG1)
Alternative Name:	NRG1 / Heregulin / Neuregulin (NRG1 Products)
Background:	<p>Name/Gene ID: NRG1</p> <p>Synonyms: NRG1, ARIA, GGF, GGF2, Glial growth factor, Heregulin, HRGA, MSTP131, NDF, Neu differentiation factor, Neuregulin 1 type IV beta 3, Neuregulin 1 type IV beta 1a, HRG1, NRG-1, SMDF, Neuregulin 1, Pro-NRG1, HGL, MST131</p>
Gene ID:	3084
Pathways:	RTK Signaling , Fc-epsilon Receptor Signaling Pathway , EGFR Signaling Pathway , Neurotrophin Signaling Pathway , Regulation of Muscle Cell Differentiation

Application Details

Application Notes:	Approved: IHC, IHC-P (5 - 10 µg/mL)
Comment:	Target Species of Antibody: Human
Assay Procedure:	<p>The IHC-pro Immunohistochemistry Protocol</p> <p>Tissue Preparation</p> <p>Formalin fixation and embedding in paraffin wax</p> <p>Tissue Sectioning</p> <p>Make 4-µm sections and place on pre-cleaned and charged microscope slides.</p> <p>Heat in a tissue-drying oven for 45 minutes at 60°C</p> <p>Deparaffinization</p> <p>Wash slides in 3 changes of xylene – 5 minutes each at room temperature.</p> <p>Rehydration</p> <p>Wash slides in 3 changes of 100% alcohol – 3 minutes each at room temperature.</p> <p>Wash slides in 2 changes of 95% alcohol – 3 minutes each at room temperature.</p> <p>Wash slides in 1 change of 80% alcohol – 3 minutes at room temperature.</p> <p>Rinse slides in gentle running distilled water – 5 minutes at room temperature.</p> <p>Antigen retrieval</p> <p>Steam slides in 0.01 M sodium citrate buffer, pH 6.0 at 99-100°C - 20 minutes</p>

Remove from heat and let stand at room temperature in buffer - 20 minutes
Rinse in 1X TBS with Tween (TBST) – 1 minute at room temperature.

Immunostaining

Do not allow tissues to dry at any time during the staining procedure.
Apply a universal protein block – 20 minutes at room temperature.
Drain protein block from slides, apply diluted primary antibody – 45 minutes at room temperature.
Rinse slides in 1X TBST - 1 minute at room temperature.
Apply a biotinylated secondary antibody (specific to the host of the primary antibody) - 30 minutes at room temperature.
Rinse slides 1X TBST – 1 minute at room temperature.
Apply alkaline phosphatase streptavidin – 30 minutes at room temperature.
Rinse slides in 1X TBST - 1 minute at room temperature.
Apply alkaline phosphatase chromogen substrate – 30 minutes at room temperature.
Wash slides in distilled water – 1 minute at room temperature.

Dehydrate

This method should only be used if the chromogen substrate is alcohol insoluble.
Wash slides in 2 changes of 80% alcohol – 1 minute each at room temperature.
Wash slides in 2 changes of 95% alcohol – 1 minute each at room temperature.
Wash slides in 3 changes of 100% alcohol – 1 minute each at room temperature.
Wash slides in 3 changes of xylene – 1 minute each at room temperature.
Apply coverslip

Restrictions:	For Research Use only
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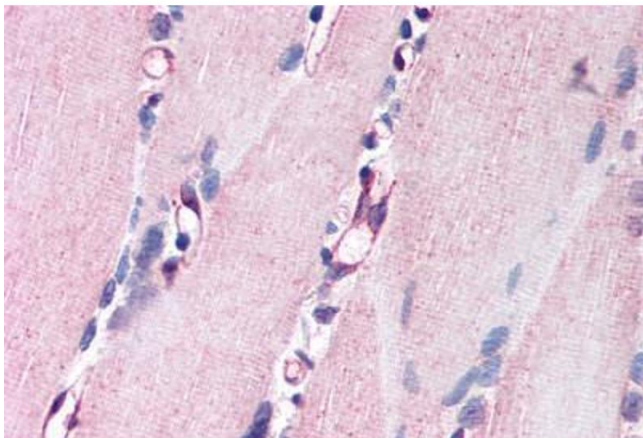
Handling

Format:	Liquid
Concentration:	Lot specific
Buffer:	PBS, less than 0.1 % 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.

Handling

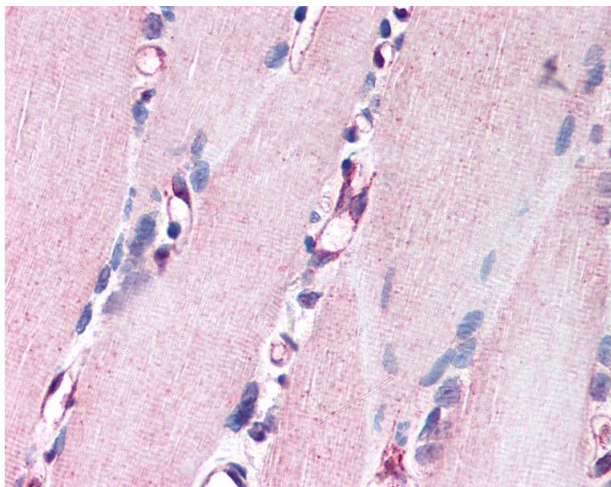
Storage:	4 °C,-20 °C
Storage Comment:	Aliquot and store undiluted at -20°C or below for up to 1 year. Can be stored undiluted at 4°C for up to 1 month. Avoid freeze-thaw cycles.
Expiry Date:	12 months

Images



Immunohistochemistry

Image 1. Anti-NRG1 antibody ABIN1049151 IHC staining of human skeletal muscle. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval.



Immunohistochemistry

Image 2. Anti-NRG1 antibody IHC of human skeletal muscle. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval.