



20150720BB

Anti-Human Neuregulin-1 (#1Y45)

**FOR RESEARCH ONLY! NOT FOR HUMAN USE!**

Cat.-no.:	101-M578
Size:	100 µg
Lot. No.:	According to product label

Preparation: This antibody was produced from a hybridoma (mouse myeloma fused with spleen cells from a mouse) immunized with extracellular domain of human recombinant protein of Neuregulin.

Target Background

Synonyms (Target):	NRG1; GGF; HGL; HRG; NDF; ARIA; GGF2; HRG1; HRGA; SMDF; MST131
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The neuregulin (also known as heregulin) cytokine family is comprised of four genes that encode a large number of secreted or membrane-bound isoforms. All family members share an EGF-like domain that interacts with the ErbB family of tyrosine kinase receptors. The NRG1 gene is the most pleiotropic, encoding more than 14 soluble or transmembrane proteins. NRG1 isoforms can be classified into type I (neu differentiation factor, NDF; heregulin, HRG; acetylcholine receptor inducing activity, ARIA), type II (glial growth factor, GGF) and type III (sensory and motor neuron-derived factor, SMDF) isoforms. NRG proteins show distinct spatial and temporal expression patterns and play important roles during development of both the nervous system and the heart.

Database References Target

Protein RefSeq:	NP_001153467.1
Uniprot ID:	Q02297
mRNA RefSeq:	NM_001159995.1

Product Specifications

Host	Mouse
Reactivity against	Human
Clonality	Monoclonal Antibody
Clone	(#1Y45)
Isotype	IgG2
Purification	Protein G chromatography
Antigen	EC domain of human recombinant Neuregulin
Formulation	lyophilized
Reconstitution buffer	PBS (sterile)

Reconstitution: Reconstitute the antibody with 200 µl sterile PBS and the final concentration is 500 µg/ml.

Stability: Lyophilized samples are stable for 2 years from date of receipt when stored at -70°C. Reconstituted antibody can be aliquoted and stored frozen at < -20 °C for at least for six months without detectable loss of activity.

Remarks: This antibody was selected for its ability to specifically detect human Neuregulin.

**AVOID REPEATED FREEZE AND THAW CYCLES!**

Applications

The antibody can be used within the following applications:
WB, IHC (P)

Recommended usage:

WB: 1:500-1000

IHC (Paraffin):

NOTE: OPTIMAL DILUTIONS SHOULD BE DETERMINED BY EACH LABORATORY FOR EACH APPLICATION!



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Handling/Application

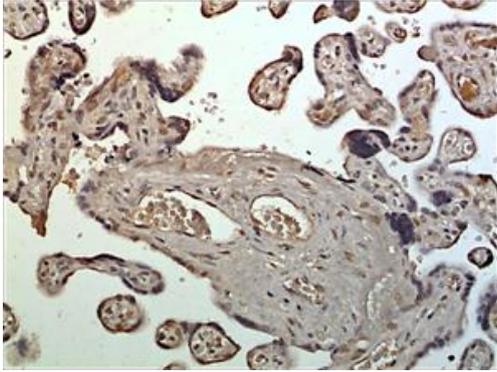


Fig. 1: A 10% Buffer formalin fixed and paraffin embedded human placental tissue section (4um) is subjected to IHC staining using a mouse anti-human Neuregulin monoclonal antibody. Tissue section was pretreated in citric buffer (ph6.0) with microwave for antigen retrieval before IHC is applied.