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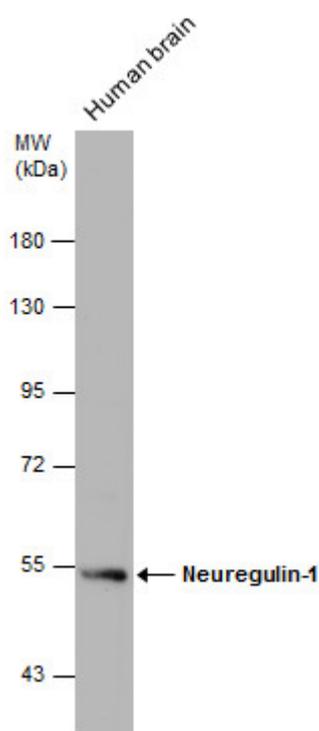
Date : 2018/08/02

Catalog Number	GTX101117	Package:25 ul,100 ul	
Product Name	 (1)		
Full Name	Neuregulin-1 antibody		
Synonyms	neuregulin 1		
Background	<p>ARIA antibody, GGF antibody, GGF2 antibody, HGL antibody, HRG antibody, HRG1 antibody, HRGA antibody, MST131 antibody, NDF antibody, SMDF antibody, NRG1 antibody, MSTP131 antibody, glial growth factor antibody, sensory and motor neuron derived factor antibody, "heregulin, alpha (45kD, ERBB2 p185-activator) antibody", neu differentiation factor antibody, neuregulin 1 type IV beta 1a antibody, "pro-neuregulin-1, membrane-bound isoform antibody", neuregulin 1 type IV beta 3 antibody, pro-NRG1 antibody, neuregulin 1 antibody</p> <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. [provided by RefSeq]</p>		
Host	Rabbit		
Clonality	Polyclonal		
Isotype	IgG		
Immunogen	Recombinant protein encompassing a sequence within the center region of human NRG1. The exact sequence is proprietary.		
Antigen Species	Human		
Species Reactivity	Human, Mouse, Rat		
Predicted Cross Reactivity species	Bovine		
Predict Reactivity Note	Bovine (91%)		
Applications	ICC/IF, WB		
Application Note	Immunocytochemistry/ Immunofluorescence (ICC/IF)	Suggested dilution	Reference
	Western Blot (WB)	1:100-1:1000*	
	Not tested in other applications.	1:500-1:3000*	
	*Optimal dilutions/concentrations should be determined by the researcher.		
Positive Controls	Human brain , Mouse brain , rat brain		
Predicted Target Size	70 kDa		
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		
Conjugation	Unconjugated		
Form Supplied	Liquid		
Purification	Purified by antigen-affinity chromatography.		

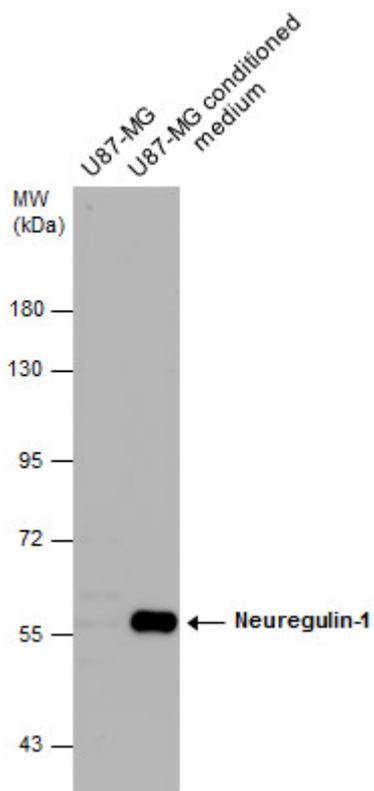
Concentration	0.96 mg/ml (Please refer to the vial label for the specific concentration)
Storage Buffer	0.1M Tris, 0.1M Glycine, 10% Glycerol (pH7). 0.01% Thimerosal was added as a preservative.
Storage Instruction	Keep as concentrated solution. Aliquot and store at -20°C or below. Avoid multiple freeze-thaw cycles.
Notes	For <i>In vitro</i> laboratory use only. Not for any clinical, therapeutic, or diagnostic use in humans or animals. Not for animal or human consumption.
ResearchArea	Cancer > Apoptosis > Anti-apoptosis Cancer > Apoptosis > Cardiac muscle cell Cell Biology > Apoptosis > Anti-apoptosis

Application Reference

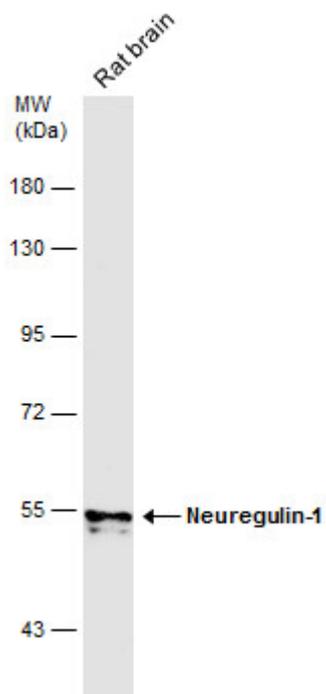
1. Casagrande V (2017) *Sci Rep* 6747



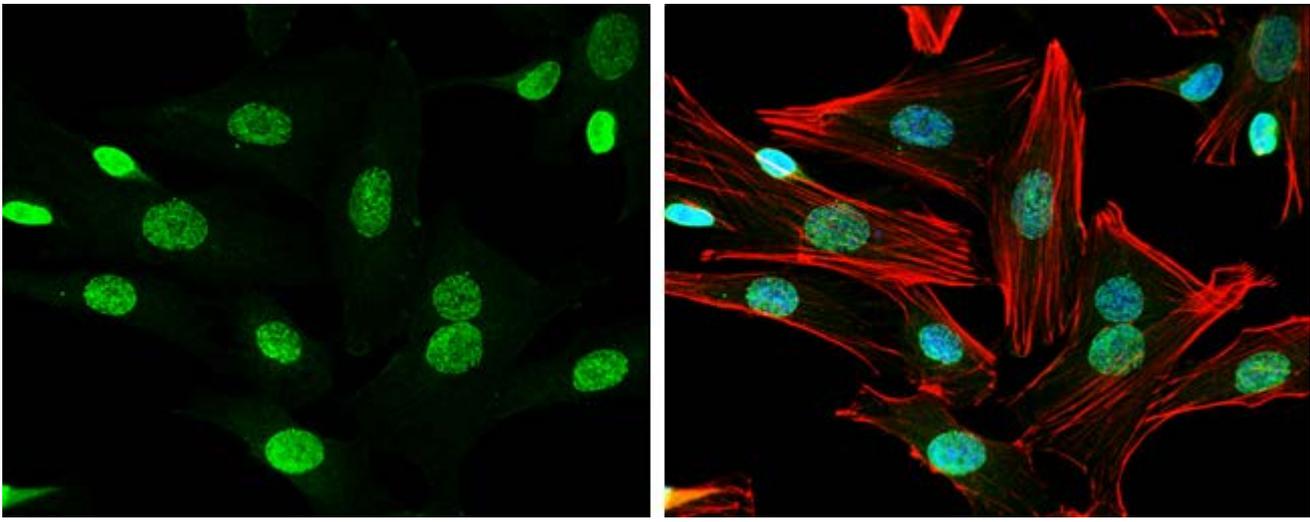
- GTX101117 WB Image
- Human tissue extract (30 µg) was separated by 7.5% SDS-PAGE, and the membrane was blotted with Neuregulin-1 antibody (GTX101117) diluted at 1:1000. The HRP-conjugated anti-rabbit IgG antibody (GTX213110-01) was used to detect the primary antibody.



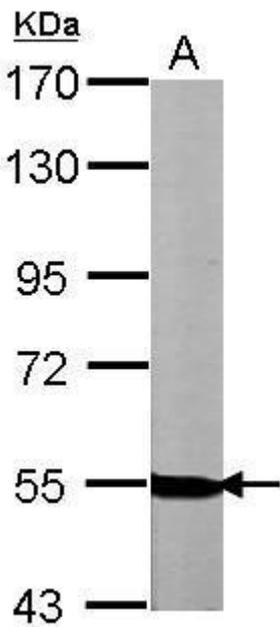
- GTX101117 WB Image
- U87-MG whole cell extract and conditioned medium (30 μ g) were separated by 7.5% SDS-PAGE, and the membrane was blotted with Neuregulin-1 antibody (GTX101117) diluted at 1:1000. The HRP-conjugated anti-rabbit IgG antibody (GTX213110-01) was used to detect the primary antibody.



- GTX101117 WB Image
- Rat tissue extract (50 μ g) was separated by 7.5% SDS-PAGE, and the membrane was blotted with Neuregulin-1 antibody (GTX101117) diluted at 1:1000. The HRP-conjugated anti-rabbit IgG antibody (GTX213110-01) was used to detect the primary antibody.



- GTX101117 ICC/IF Image
- Neuregulin-1 antibody detects Neuregulin-1 protein at nucleus by immunofluorescent analysis.
Sample: SK-N-SH cells were fixed in 4% paraformaldehyde at RT for 15 min.
Green: Neuregulin-1 protein stained by Neuregulin-1 antibody (GTX101117) diluted at 1:500.
Red: Phalloidin, a cytoskeleton marker, diluted at 1:100.
Blue: Hoechst 33342 staining.



- GTX101117 WB Image
- Sample (50 μ g of whole cell lysate)
A: mouse brain
7.5% SDS PAGE
GTX101117 diluted at 1:1000
The HRP-conjugated anti-rabbit IgG antibody (GTX213110-01) was used to detect the primary antibody.