

For Research Use Only

# NRG1, isoform Beta1 Polyclonal antibody



Catalog Number: 31147-1-AP

## Basic Information

<b>Catalog Number:</b> 31147-1-AP	<b>GenBank Accession Number:</b> BC007675	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 450 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 3084	<b>Recommended Dilutions:</b> WB 1:500-1:2000 IHC 1:50-1:500
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q02297	
<b>Isotype:</b> IgG	<b>Full Name:</b> neuregulin 1	
<b>Immunogen Catalog Number:</b> AG35188	<b>Calculated MW:</b> 32 kDa	
	<b>Observed MW:</b> 71 kDa	

## Applications

### Tested Applications:

IHC, WB, ELISA

### Species Specificity:

Human, Mouse, Rat

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

### Positive Controls:

WB : HeLa cells, mouse brain tissue, rat brain tissue

IHC : mouse cerebellum tissue,

## Background Information

Neuregulin 1 (NRG1) is a trophic factor that has been implicated in neural development, neurotransmission, and synaptic plasticity. NRG1 has multiple isoforms that are generated by usage of different promoters and alternative splicing of a single gene. NRG1 and its receptor ErbB tyrosine kinase are expressed not only in the developing nervous system, but also in the adult brain. The antibody is specific to NRG1 isoform Beta1.

## Storage

### Storage:

Store at -20°C. Stable for one year after shipment.

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

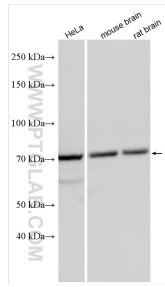
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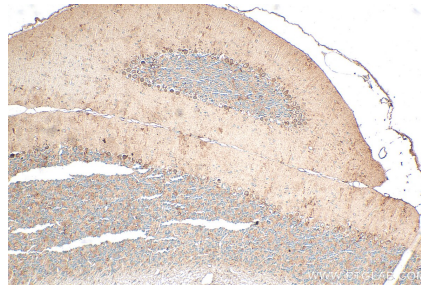
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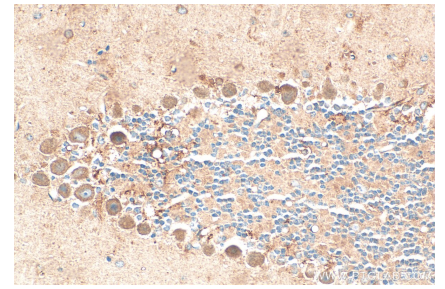
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 31147-1-AP (NRG1, isoform Beta1 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse cerebellum tissue slide using 31147-1-AP (NRG1, isoform Beta1 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse cerebellum tissue slide using 31147-1-AP (NRG1, isoform Beta1 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).