

For Research Use Only

# NEU2 Recombinant antibody

Catalog Number:83934-1-RR



## Basic Information

<b>Catalog Number:</b> 83934-1-RR	<b>GenBank Accession Number:</b> BC107053	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 1000 ug/ml	<b>GeneID (NCBI):</b> 4759	<b>CloneNo.:</b> 240685B3
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q9Y3R4	<b>Recommended Dilutions:</b> WB 1:2000-1:16000 IHC 1:50-1:500
<b>Isotype:</b> IgG	<b>Full Name:</b> sialidase 2 (cytosolic sialidase)	
<b>Immunogen Catalog Number:</b> AG17386	<b>Calculated MW:</b> 380 aa, 42 kDa	
	<b>Observed MW:</b> 42 kDa	

## Applications

### Tested Applications:

WB, IHC, ELISA

### Species Specificity:

human, mouse

**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 : mouse skeletal muscle tissue,

IHC : mouse skeletal muscle tissue,

## Background Information

NEU2, also named as Sialidase 2, neuraminidase 2, catalyzes the hydrolytic cleavage of the terminal sialic acid (N-acetylneuraminic acid, Neu5Ac) of a glycan moiety in the catabolism of glycolipids, glycoproteins and oligosaccharides. NEU2 is localized in the cytosol and plasma membrane and takes part in myoblast and neuronal differentiation. It is almost undetectable under normal physiological conditions, and was found to be involved into apoptotic events in pancreatic ductal adenocarcinoma, one of the most dangerous cancers due to poor diagnosis and prognosis. (PMID: 30439363)

## 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

For technical support and original validation data for this product please contact:

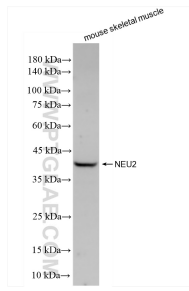
T: 4006900926

E: Proteintech-CN@ptglab.com

W: ptgcn.com

**This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.**

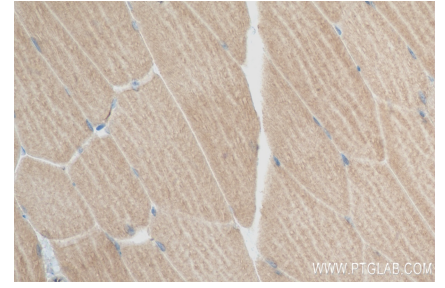
## Selected Validation Data



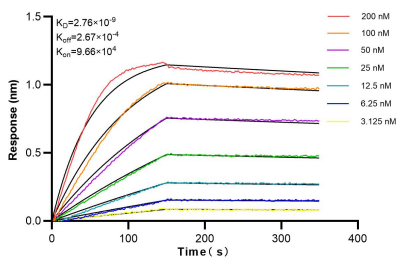
mouse skeletal muscle tissue were subjected to SDS PAGE followed by western blot with 83934-1-RR (NEU2 antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse skeletal muscle tissue slide using 83934-1-RR (NEU2 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 skeletal muscle tissue slide using 83934-1-RR (NEU2 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Bi-layer interferometry (BLI) kinetic assays of 83934-1-RR against Human NEU2 were performed. The affinity constant is 2.76 nM.