

For Research Use Only

# NEU4 Polyclonal antibody

Catalog Number: 12995-1-AP

9 Publications



## Basic Information

### Catalog Number:

12995-1-AP

### Size:

150ul, Concentration: 400 ug/ml by Nanodrop;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG3657

### GenBank Accession Number:

BC012899

### GeneID (NCBI):

129807

### UNIPROT ID:

Q8WWR8

### Full Name:

sialidase 4

### Calculated MW:

496 aa, 53 kDa

### Observed MW:

52-55 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:500-1:2000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC 1:50-1:500

## Applications

### Tested Applications:

WB, IP, IHC, ELISA

### Cited Applications:

WB, IHC, IF, IP

### Species Specificity:

human

### Cited Species:

human, mouse, rat

### Positive Controls:

WB : COLO 320 cells, HepG2 cells, L02 cells

IP : L02 cells,

IHC : human placenta tissue,

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

## Background Information

NEU4, also named as LP5125, belongs to a family of glycohydrolitic enzymes, which remove terminal sialic acid residues from various sialo derivatives, such as glycoproteins, glycolipids, oligosaccharides, and gangliosides. It may function in lysosomal catabolism of sialylated glycoconjugates. NEU4 has a broad substrate specificity being active on glycoproteins, oligosaccharides and sialylated glycolipids.

## Notable Publications

Author	Pubmed ID	Journal	Application
Farah Alghamdi	24583283	Cell Signal	WB,IP
Jie Shi	39402373	Oncogene	WB,IHC,IF
Ping-Ting Xiao	39136142	Adv Sci (Weinh)	WB,IHC,IF

## 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

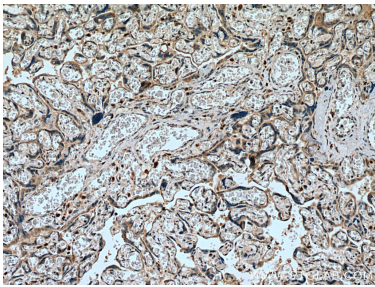
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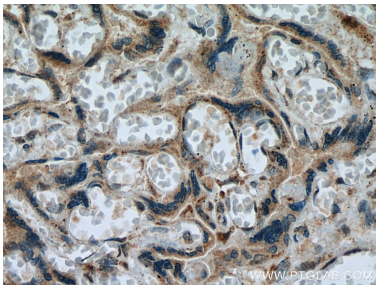
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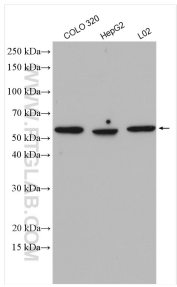
Selected Validation Data



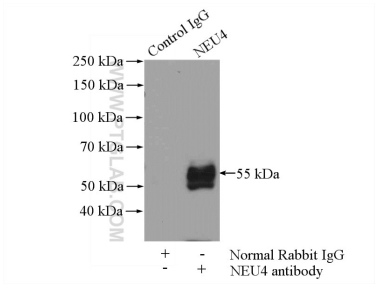
Immunohistochemical analysis of paraffin-embedded human placenta tissue slide using 12995-1-AP (NEU4 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human placenta tissue slide using 12995-1-AP (NEU4 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Various lysates were subjected to SDS PAGE followed by western blot with 12995-1-AP (NEU4 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



IP result of anti-NEU4 (IP:12995-1-AP, 4ug; Detection:12995-1-AP 1:500) with L02 cells lysate 1400ug.