

For Research Use Only

NEU4 Polyclonal antibody

Catalog Number: 12995-1-AP **7 Publications**



Basic Information

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|---|--|--|
| Catalog Number: 12995-1-AP | GenBank Accession Number: BC012899 | Purification Method: Antigen affinity purification |
| Size: 150ul , Concentration: 400 µg/ml by Nanodrop; | GeneID (NCBI): 129807 | Recommended Dilutions: WB 1:500-1:2000 IP 0.5-4.0 ug for IP and 1:500-1:1000 for WB |
| Source: Rabbit | Full Name: sialidase 4 | IHC 1:50-1:500 |
| Isotype: IgG | Calculated MW: 496 aa, 53 kDa | |
| Immunogen Catalog Number: AG3657 | Observed MW: 52-55 kDa | |

Applications

| | |
|---|--|
| Tested Applications: IHC, IP, WB, ELISA | Positive Controls: WB : COLO 320 cells, HepG2 cells, L02 cells |
| Cited Applications: IF, IP, WB | IP : L02 cells, |
| Species Specificity: human | IHC : human placenta tissue, |
| Cited Species: 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

Background Information

NEU4, also named as LP5125, belongs to a family of glycohydrolytic 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 |
| Gilmour Alanna M AM | 23993964 | Cell Signal | WB,IP |
| Bilyy Rostyslav O RO | 22074924 | J Biol Chem | WB |

Storage

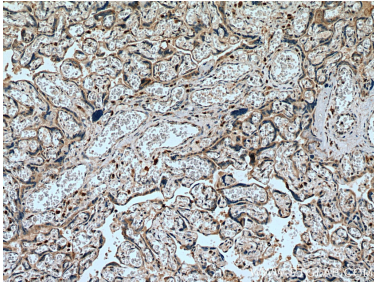
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

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

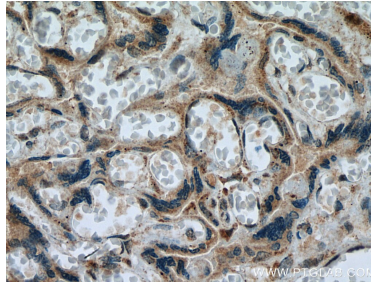
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
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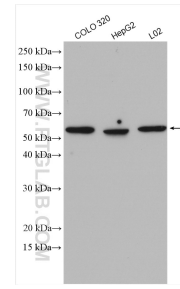
Selected Validation Data



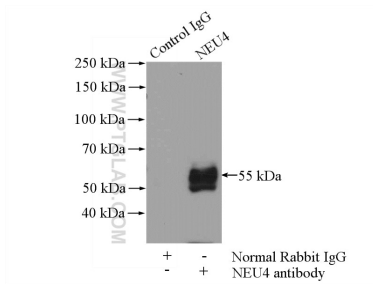
Immunohistochemical analysis of paraffin-embedded human placenta tissue slide using 12995-1-AP (NEU4 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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 LO2 cells lysate 1400ug.