For Research Use Only

NEU1 Monoclonal antibody

Catalog Number:67032-1-lg 5 Publications



Basic Information

Catalog Number: 67032-1-lg Size:

1000 ug/ml Source: Mouse Isotype: lgG1

Immunogen Catalog Number:

AG27945

GenBank Accession Number:

BC011900 GeneID (NCBI): 4758 **UNIPROT ID:** Q99519

Full Name:

45-48 kDa

sialidase 1 (lysosomal sialidase)

Calculated MW: 45 kDa Observed MW:

Positive Controls:

WB: PC-12 cells, pig liver tissue, rat liver tissue, rat

Purification Method:

Protein A purification

Recommended Dilutions:

WB 1:1000-1:6000 IHC 1:150-1:600

IF/ICC 1:50-1:500

CloneNo.:

1F6D1

pancreas tissue, mouse liver tissue IHC: human pancreas cancer tissue,

IF/ICC: U-251 cells,

Applications

Tested Applications: WB, IHC, IF/ICC, ELISA Cited Applications: WB, IF, IP

Species Specificity: human, mouse, rat, pig **Cited Species:**

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

Background Information

NEU1 (lysosomal sialidase) encodes a kind of lysosomal enzyme that could cleave terminal silic acids from glycoproteins or glycolipids to regulate various biological processes by conformational change (PMID:28130415). In the lysosome, NEU1 is one member of a heterotrimeric complex, the others are beta-galactosidase and cathepsin A. The NEU1 is widely expressed in mammalian tissues and involved in lysosomal storage disorder sialidosis, autoimmune diseases and the malignancy and metastasis of cancer cells (PMID:19075514). NUE1 also expresses on the plasma membrane where it modulates several signalling molecules about inflamation, exocytosis, phagocytosis, cell adhesion and proliferation (PMID:21928149). Addition, it is reported that mutation in NEU1 of human could lead to sialidosis (PMID:14517945).

Notable Publications

Author	Pubmed ID	Journal	Application
Rodrigo de Oliveira Formiga	36526272	Br J Pharmacol	IF
Qiuyi Zhao	39566266	Virology	WB
Xin Yang	38460365	Biomed Pharmacother	WB,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.

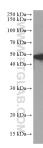
Aliquoting is unnecessary for -20°C storage

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

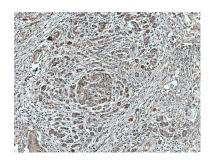
T: 4006900926 E: Proteintech-CN@ptglab.com

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

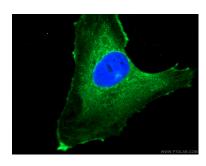
Selected Validation Data



PC-12 cells were subjected to SDS PAGE followed by western blot with 67032-1-Ig (NEU1 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffinembedded human pancreas cancer tissue slide using 67032-1-Ig (NEU1 antibody) at dilution of 1:300 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed U-251 cells using 67032-1-1g (NEU1 antibody), at dilution of 1:200 and Coralite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).