For Research Use Only

NEU1 Monoclonal antibody

Catalog Number:67032-1-Ig 17 Publications

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Basic Information

Catalog Number:
67032-1-Ig

Source:
Mouse

Isotype:
IgG1

Immunogen Catalog Number:
AG27945

GenBank Accession Number:
BC011900

GeneID (NCBI):
4758

UNIPROT ID:
Q99519

Full Name:
sialidase 1 (lysosomal sialidase)

Calculated MW:
45 kDa

Observed MW:
45-48 kDa

Purification Method:
Protein G purification

CloneNo.:
1F6D1

Recommended Dilutions:
WB: 1:1000-1:6000
IHC: 1:150-1:600
IF/ICC: 1:50-1:500

Applications

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

Cited Applications:
WB, IHC, IF, IP, CoIP, ChIP

Species Specificity:
human, mouse, rat, pig

Cited Species:
human, mouse, rat, pig, bovine

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 : PC-12 cells, pig liver tissue, rat liver tissue, rat pancreas tissue, mouse liver tissue

IHC : human pancreas cancer tissue,

IF/ICC : U-251 cells,

Background Information

NEU1 (lysosomal sialidase) encodes a kind of lysosomal enzyme that could cleave terminal sialic 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 inflammation, exocytosis, phagocytosis, cell adhesion and proliferation (PMID:21928149). Additionally, it is reported that mutations in human NEU1 could lead to sialidosis (PMID:14517945).

Notable Publications

Author	Pubmed ID	Journal	Application
Rodrigo de Oliveira Formiga	36526272	Br J Pharmacol	IF
Zhilan Zhang	41914737	Cell Adh Migr	WB,IF
Yaqiong Jiang	42361896	Life Sci	

Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:
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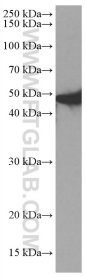
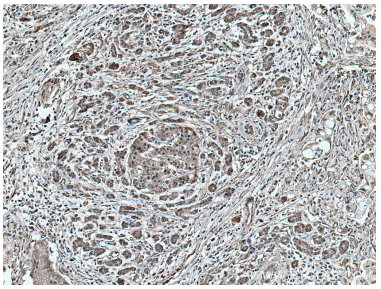
This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

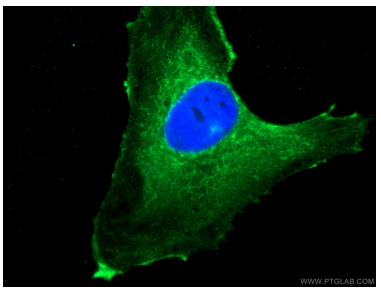
Selected Validation Data



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 paraffin-embedded 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-Ig (NEU1 antibody), at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).