

Human NEU1 protein, His tag

Cat. No. GTX00130-pro

Applications	Functional Assay	Package
Species	Human	10 µg

Applications

Application Note

NEU (Sialidase-1) is an enzyme that catalyzes the removal of sialic acid (N-acetylneurameric acid) moieties from glycoproteins and glycolipids. In the lysosome, this enzyme is part of a heterotrimeric complex together with beta-galactosidase and cathepsin A (CTSA). Thus a binding ELISA assay was conducted to detect the interaction of recombinant human NEU and recombinant human CTSA. Briefly, NEU were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100 µl were then transferred to CTSA-coated microtiter wells and incubated for 2h at 37°C. Wells were washed with PBST and incubated for 1h with anti-NEU pAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody, wells were aspirated and washed 3 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37°C. Finally, add 50 µl stop solution to the wells and read at 450nm immediately. The binding activity of NEU and CTSA was in a dose dependent manner.

Observed MW (kDa) 46 kDa.

Properties

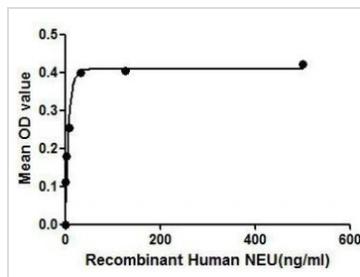
Form	Lyophilized powder
Buffer	Reconstitute with 20mM Tris and 150mM NaCl to 0.1-1.0mg/ml. Do not vortex. Lyophilized from 20mM Tris, 150mM NaCl, 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose.
Preservative	ProClin 300
Storage	For short-term storage (1-2 weeks), store at 4°C. For long-term storage, store at -20°C or below. After reconstitution, keep as concentrated solution. Avoid freeze-thaw cycles.
Region/Sequence	N-terminal His-Tag; Ala47~Leu415 (NP_000425.1)
Expression System	HEK293 cells
Purity	> 97%
Endotoxin	< 1 EU/µg
Conjugation	Unconjugated
Note	For laboratory use only. Not for any clinical, therapeutic, or diagnostic use in humans or animals. Not for animal or human consumption.



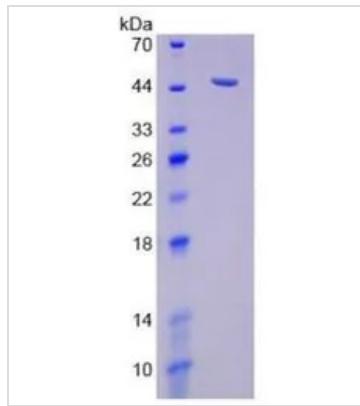
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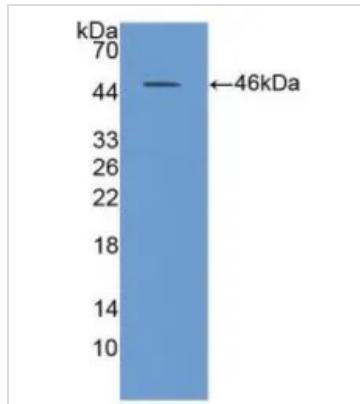
DATA IMAGES

**GTx00130-pro Functional Assay Image**

Functional ELISA analysis of GTx00130-pro Human NEU1 protein which can bind immobilized CTSA protein.

**GTx00130-pro Image**

SDS-PAGE analysis of GTx00130-pro Human NEU1 protein.

**GTx00130-pro Image**

WB analysis of GTx00130-pro Human NEU1 protein.



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