Pig Sialidase-1 (NEU1) ELISA Kit

Catalog No: #EK11495

Package Size: #EK11495-1 48T #EK11495-2 96T

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

Description

Product Name	Pig Sialidase-1 (NEU1) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Pig (Sus scrofa; Porcine)
Other Names	DAAP-222I20.1; FLJ93471; NANH; NEU; SIAL1; G9 sialidase|N-acetyl-alpha-neuraminidase 1|acetylneuraminyl hydrolase|exo-alpha-sialidase|lysosomal sialidase|neuraminidase 1
Accession No.	A5PF10
Uniprot	A5PF10
GeneID	100124381;
Storage	The stability of ELISA kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. The loss rate was determined by accelerated thermal degradation test. Keep the kit at 37C for 4 and 7 days, and compare O.D.values of the kit kept at 37C with that of at recommended temperature. (referring from China Biological Products Standard, which was calculated by the Arrhenius equation. For ELISA kit, 4 days storage at 37C can be considered as 6 months at 2 - 8C, which means 7 days at 37C equaling 12 months at 2 - 8C).

Application Details

Detect Range:0.156-10 ng/mL

Sensitivity:0.057 ng/mL

Sample Type:Serum, Plasma, Other biological fluids

Sample Volume: 1-200 µL

Assay Time:1-4.5h

Detection wavelength:450 nm

Product Description

Detection Method:SandwichTest principle:This assay employs a two-site sandwich ELISA to quantitate NEU1 in samples. An antibody specific for NEU1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyNEU1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for NEU1 is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of NEU1 bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:Neuraminidase, or lysosomal sialidase , has a dual physiologic function: it participates in intralysosomal catabolism of sialated glycoconjugates and is involved in cellular immune response. The enzyme occurs in a complex with beta-galactosidase (GLB1) and protective protein/cathepsin A (CTSA).The cDNA predicted a 415-amino acid protein showing extensive homology to other mammalian and bacterial neuraminidases. After the cleavage of a 47-amino acid N-terminal signal peptide and glycosylation, it becomes a 48.3-kD mature active enzyme similar to that found in the multienzyme lysosomal complex. Transient expression of cDNA in deficient human fibroblasts showed that the enzyme is compartmentalized in lysosomes and restores neuraminidase activity in a PPCA-dependent manner.

Note: This product is for in vitro research use only