abcam

Product datasheet

Anti-Neuraminidase antibody ab233119

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Overview

Product name	Anti-Neuraminidase antibody
Description	Rabbit polyclonal to Neuraminidase
Host species	Rabbit
Tested applications	**Suitable for:** WB, IHC-P
Species reactivity	**Reacts with:** Mouse, Human **Predicted to work with:** Cow, Pig, Orangutan
Immunogen	Recombinant full length protein corresponding to Human Neuraminidase aa 1 to the C-terminus. Mature chain. Two N-terminal tags His-tag and S-tag, (Expressed in .coli). Database link: **Q99519** Run BLAST with Run BLAST with
Positive control	IHC-P: Human stomach and liver tissue. WB: Recombinant human Neuraminidase protein; Human liver lysate; HepG2 whole cell lysate (**ab7900**); Mouse pancreas lysate.
General notes	The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.40 Preservative: 0.011% Proclin 300 Constituents: 55.77% Glycerol (glycerin, glycerine), 44.219% PBS
Purity	Immunogen affinity purified
Purification notes	Antigen-specific affinity chromatography followed by Protein A affinity chromatography.
Clonality	Polyclonal

Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab233119 in the following tested applications.

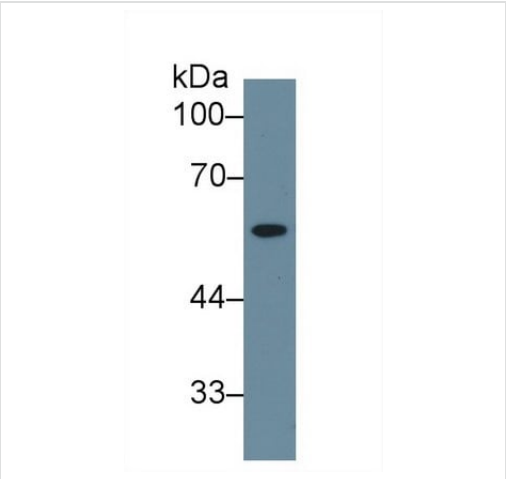
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		Use a concentration of 0.5 - 2 µg/ml. Predicted molecular weight: 45 kDa.
IHC-P		Use a concentration of 5 - 20 µg/ml.

Target

Function	Catalyzes the removal of sialic acid (N-acetylneuramic acid) moities from glycoproteins and glycolipids. To be active, it is strictly dependent on its presence in the multienzyme complex. Appears to have a preference for alpha 2-3 and alpha 2-6 sialyl linkage.
Tissue specificity	Highly expressed in pancreas, followed by skeletal muscle, kidney, placenta, heart, lung and liver. Weakly expressed in brain.
Involvement in disease	Defects in NEU1 are the cause of sialidosis (SIALIDOSIS) [MIM:256550]. It is a lysosomal storage disease occurring as two types with various manifestations. Type 1 sialidosis (cherry red spot-myoclonus syndrome or normosomatic type) is late-onset and it is characterized by the formation of cherry red macular spots in childhood, progressive debilitating myoclonus, insiduous visual loss and rarely ataxia. The diagnosis can be confirmed by the screening of the urine for sialyloligosaccharides. Type 2 sialidosis (also known as dysmorphic type) occurs as several variants of increasing severity with earlier age of onset. It is characterized by the presence of abnormal somatic features including coarse facies and dysostosis multiplex, vertebral deformities, mental retardation, cherry-red spot/myoclonus, sialuria, cytoplasmic vacuolation of peripheral lymphocytes, bone marrow cells and conjunctival epithelial cells.
Sequence similarities	Belongs to the glycosyl hydrolase 33 family. Contains 4 BNR repeats.
Domain	A C-terminal internalization signal (YGTL) appears to allow the targeting of plasma membrane proteins to endosomes.
Post-translational modifications	N-glycosylated. Phosphorylation of tyrosine within the internalization signal results in inhibition of sialidase internalization and blockage on the plasma membrane.
Cellular localization	Lysosome membrane. Lysosome lumen. Cell membrane. Cytoplasmic vesicle. Localized not only on the inner side of the lysosomal membrane and in the lysosomal lumen, but also on the plasma membrane and in intracellular vesicles.

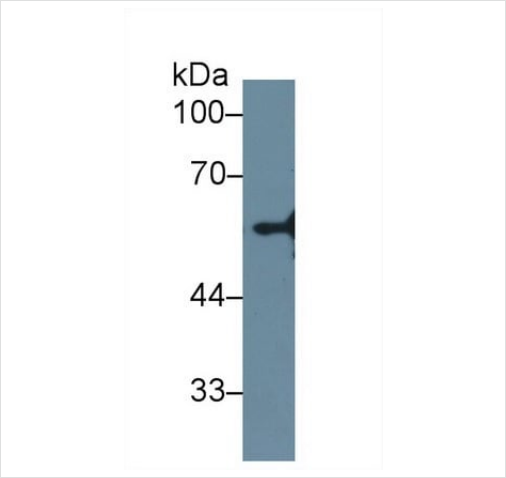
Images



Western blot - Anti-Neuraminidase antibody (ab233119)

Anti-Neuraminidase antibody (ab233119) at 2 µg/ml + Human liver tissue lysate.

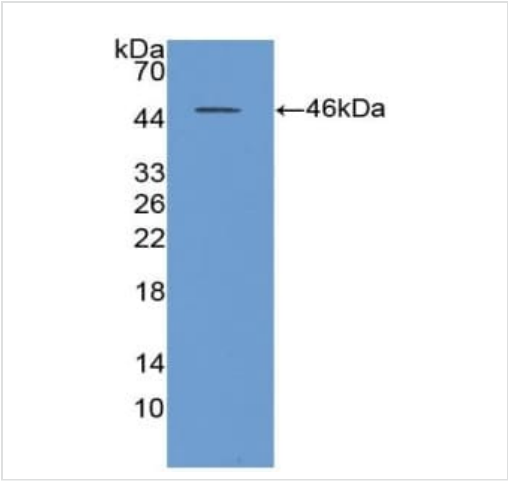
Predicted band size: 45 kDa



Western blot - Anti-Neuraminidase antibody (ab233119)

Anti-Neuraminidase antibody (ab233119) at 2 µg/ml + HepG2 (human liver hepatocellular carcinoma cell line) cell lysate.

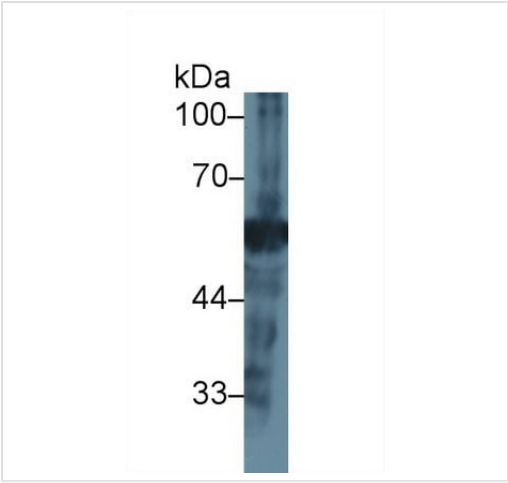
Predicted band size: 45 kDa



Western blot - Anti-Neuraminidase antibody (ab233119)

Anti-Neuraminidase antibody (ab233119) at 2 µg/ml + Recombinant human Neuraminidase protein.

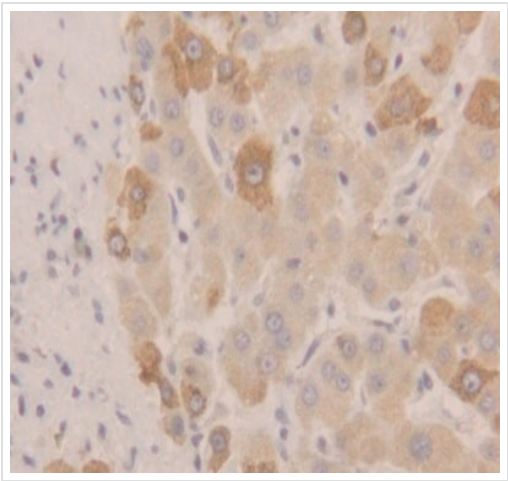
Predicted band size: 45 kDa



Western blot - Anti-Neuraminidase antibody (ab233119)

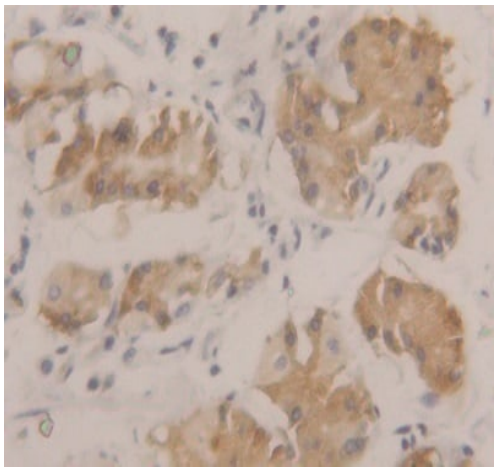
Anti-Neuraminidase antibody (ab233119) at 2 µg/ml + Mouse pancreas tissue lysate.

Predicted band size: 45 kDa



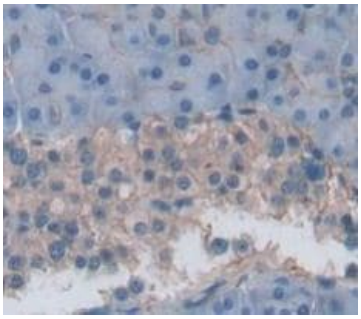
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Neuraminidase antibody (ab233119)

Formalin-fixed, paraffin-embedded human liver tissue stained for Neuraminidase using ab233119 at 20µg/mL in immunohistochemical analysis. DAB staining.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Neuraminidase antibody (ab233119)

Formalin-fixed, paraffin-embedded human stomach tissue stained for Neuraminidase using ab233119 at 20µg/mL in immunohistochemical analysis. DAB staining.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Neuraminidase antibody (ab233119)

Formalin-fixed, paraffin-embedded human pancreas tissue stained for Neuraminidase using ab233119 at 20µg/mL in immunohistochemical analysis. DAB staining.

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