

Polyclonal Antibody to Neuraminidase - Purified

Catalog No.:	BP941
Quantity:	1 ml
Concentration:	1.7 mg/ml
Background:	<p>Neuraminidases or sialidases are exoglycosidases that catalyze the cleavage of a glycosidically linked terminal N acetyl neuraminic acid from sialylated glycoconjugates. They are widely spread in nature, occurring in viruses, bacteria, fungi, protozoa, birds and mammals. Together, the neuraminidases form a family of hydrolases that share a conserved active site and similar sequence motifs. Three types of neuraminidase are found in mammals and are defined as lysosomal, plasma membrane and cytosolic on the basis of their biochemical properties and subcellular distribution. Lysosomal N acetylneuraminidase (NEU1) has significant primary structure characteristics of other mammalian and microbial sialidases with similar substrate specificity. However, unlike other members of this family, lysosomal neuraminidase requires the carboxypeptidase protective protein/cathepsin A (PPCA) for intracellular transport and lysosomal activation. The enzyme is only catalytically active when it is bound to PPCA and is a component of a high molecular weight, multi protein complex containing PPCA, β galactosidase and Nacetyl galactosamine 6 sulfate sulfatase. The autosomal recessive genetic deficiency of NEU1 is associated with sialidosis, a neurodegenerative lysosomal storage disorder.</p>
Host:	Rabbit
Immunogen:	Native Neuraminidase, from <i>C. perfringens</i>
Format:	<p>State: Liquid Ig fraction Purification: Ammonium Sulphate fractionation Buffer System: PBS, pH 7.2, 0.09 % Sodium Azide</p>
Applications:	<p>ELISA. Western blot (1/50 - 1/200). Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.</p>
Specificity:	<p>This antibody detects Neuraminidase. Species: Bacteria. Other species not tested.</p>
Storage:	<p>Store the antibody at -20 °C. Can be shipped at 2 - 8 °C. Avoid repeated freezing and thawing. Shelf life: One year from despatch.</p>