Datasheet for ABIN7599289

anti-NANS antibody (AA 1-341)

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Overview

Quantity:	100 µg
Target:	NANS
Binding Specificity:	AA 1-341
Reactivity:	Human, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This NANS antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunofluorescence (IF), Immunocytochemistry (ICC)

Product Details

Purpose:	Anti-NANS Antibody Picoband®
Immunogen:	E.coli-derived human NANS recombinant protein (Position: M1-E341). Human NANS shares 96.2% amino acid (aa) sequence identity with mouse NANS.
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins
Characteristics:	Anti-NANS Antibody Picoband® (ABIN7599289). Tested in WB, ICC/IF, ELISA applications. This antibody reacts with Human, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Purification:	Immunogen affinity purified.

Target Details

Target:	NANS
Alternative Name:	NANS (NANS Products)
Background:	Synonyms: NANS, SAS, Sialic acid synthase, N-acetylneuraminate synthase, EC 2.5.1.56, N-acetylneuraminate-9-phosphate synthase, EC 2.5.1.57, N-acetylneuraminic acid phosphate synthase, N-acetylneuraminic acid synthase Background: Sialic acid synthase is an enzyme that in humans is encoded by the NANS gene. This gene encodes an enzyme that functions in the biosynthetic pathways of sialic acids. In vitro, the encoded protein uses N-acetylmannosamine 6-phosphate and mannose 6-phosphate as substrates to generate phosphorylated forms of N-acetylneuraminic acid (Neu5Ac) and 2-keto-3-deoxy-D-glycero-D-galacto-nononic acid (KDN), respectively, however, it exhibits much higher activity toward the Neu5Ac phosphate product. In insect cells, expression of this gene results in Neu5Ac and KDN production. This gene is related to the E. coli sialic acid synthase gene neuB, and it can partially restore sialic acid synthase activity in an E. coli neuB-negative mutant.
Molecular Weight:	38 kDa
Gene ID:	54187

Application Details

Application Notes:	Western blot, 0.25-0.5 µg/mL, Human, Rat Immunocytochemistry/Immunofluorescence, 5 µg/mL, Human ELISA, 0.1-0.5 µg/mL
	1. Camera, G., Camera, A., Gatti, R. Sponastrime dysplasia: report on two siblings with mental retardation. Pediat. Radiol. 23: 611-614, 1993. 2. Genevieve, D., Heron, D., El Ghouzzi, V., Prost-Squarcioni, C., Le Merrer, M., Jacquette, A., Sanlaville, D., Pinton, F., Villeneuve, N., Kalifa, G., Munnich, A., Cormier-Daire, V. Exclusion of the dymeclin and PAPSS2 genes in a novel form of spondyloepimetaphyseal dysplasia and mental retardation. Europ. J. Hum. Genet. 13: 541-546, 2005. 3. Lawrence, S. M., Huddleston, K. A., Pitts, L. R., Nguyen, N., Lee, Y. C., Vann, W. F., Coleman, T. A., Betenbaugh, M. J. Cloning and expression of the human N-acetylneuraminic acid phosphate synthase gene with 2-keto-3-deoxy-D-glycero-D-galacto-nononic acid biosynthetic ability. J. Biol. Chem. 275: 17869-17877, 2000.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Adding 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Storage:	4 °C,-20 °C
Storage Comment:	At -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freezing and thawing.