

Mouse Anti-Human NANS Monoclonal Antibody

Cat. No. CAB-11470MH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Anti-human NANS mAb, is derived from hybridization of mouse F0 myeloma cells with spleen cells from BALB/c mice immunized with a recombinant human NANS protein.
Species	Human
Source	Mouse
Antigen Description	NANS (Sialic acid synthase) is an enzyme that functions in the biosynthetic pathways of sialic acids. Expressed ubiquitously, NANS enzymatically catalyzes the H ₂ O-dependent formation of N-acetylneuraminic acid (Neu5Ac) and 2-keto-3-deoxy-D-glycero-D-galacto-nononic acid (KDN), both of which are sialic acids. NANS uses N-acetylmannosamine 6-phosphate as a substrate for Neu5Ac synthesis and mannose 6-phosphate as a substrate for KDN synthesis.
Immunogen	Recombinant human NANS(1-359aa) purified from E. coli.
Isotype	Mouse IgG1 heavy chain and κ light chain.
Application	ELISA; WB
Clone	BU2H7
Description	NANS is an enzyme that in humans is encoded by the NANS gene.
Concentration	1 mg/ml

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Form	Liquid. In Phosphate-Buffered Saline (pH 7.4) with 0.1% Sodium Azide.
Usage	The antibody has been tested by ELISA, Western blot analysis to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results. Recommended dilution range for Western blot analysis is 1:1000.
Storage	Can be stored at +4°C. For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

GENE INFORMATION

Gene Name	NANS N-acetylneuraminic acid synthase [Homo sapiens]
Official Symbol	NANS
Synonyms	NANS; N-acetylneuraminic acid synthase; SAS; sialic acid synthase; N-acetylneuraminate synthase; sialic acid phosphate synthase; N-acetylneuraminate-9-phosphate synthase; N-acetylneuraminic acid phosphatesynthase; EC 2.5.1.56; EC 2.5.1.57; OTTHUMP00000021769
Gene ID	54187
mRNA Refseq	NM_018946
Protein Refseq	NP_061819
MIM	605202
UniProt ID	Q9NR45

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Chromosome Location	9p24.1-p23
Pathway	Amino sugar and nucleotide sugar metabolism; CMP-N-acetylneuraminate biosynthesis I (eukaryotes); Metabolic pathways; superpathway of sialic acid and CMP-sialic acid biosynthesis
Function	N-acetylneuraminate synthase activity; N-acetylneuraminate cytidylyltransferase activity; N-acetylneuraminate-9-phosphate synthase activity; transferase activity

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