

## Product datasheet for **AM09398PU-N**

### **NANS Mouse Monoclonal Antibody [Clone ID: AT1G6]**

#### **Product data:**

<b>Product Type:</b>	Primary Antibodies
<b>Clone Name:</b>	AT1G6
<b>Applications:</b>	ELISA, WB
<b>Recommended Dilution:</b>	ELISA. Western blot (recommended dilution 1:1000).
<b>Reactivity:</b>	Human
<b>Host:</b>	Mouse
<b>Isotype:</b>	IgG1
<b>Clonality:</b>	Monoclonal
<b>Immunogen:</b>	Recombinant human NANS (1-359aa) purified from E. coli
<b>Specificity:</b>	The antibody recognizes human NANS. Other species not tested.
<b>Formulation:</b>	PBS, pH 7.4 containing 0.02% Sodium Azide and 10% Glycerol State: Purified State: Liquid purified Ig fraction
<b>Concentration:</b>	lot specific
<b>Purification:</b>	Protein-G affinity chromatography
<b>Conjugation:</b>	Unconjugated
<b>Storage:</b>	Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
<b>Stability:</b>	Shelf life: one year from despatch.
<b>Gene Name:</b>	Homo sapiens N-acetylneuraminate synthase (NANS)
<b>Database Link:</b>	<a href="#">Entrez Gene 54187 Human Q9NR45</a>



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**Background:**

NANS (Sialic acids synthase) is an enzyme that functions in the biosynthetic pathways of sialic acids. Expressed ubiquitously, NANS enzymatically catalyzes the H<sub>2</sub>O-dependent formation of N-acetylneuraminic acid (Neu5Ac) and 2-keto-3-deoxy-D-glycero - D-galactononic 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.

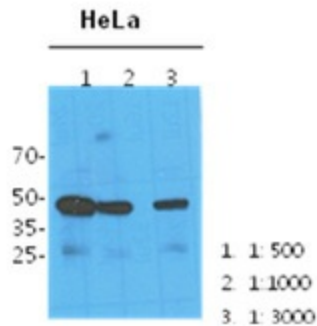
**Synonyms:**

SAS

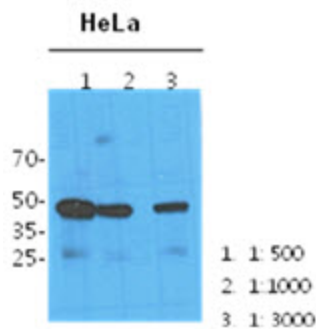
**Protein Pathways:**

Amino sugar and nucleotide sugar metabolism, Metabolic pathways

**Product images:**



The cell lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human NANS antibody (1:100, 1:1000, 1:3000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.



Western blot analysis The cell lysates (40 ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human NANS antibody (1:100, 1:1000, 1:3000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.