10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

# NANS antibody - middle region

Rabbit Polyclonal Antibody
Catalog # AI15219

## Product Information

| | |
|---|---|
| **Application** | WB |
| **Primary Accession** | Q9NR45 |
| **Other Accession** | NM_018946, NP_061819 |
| **Reactivity** | Human, Mouse, Rat, Rabbit, Zebrafish, Pig, Dog, Guinea Pig, Horse, Bovine |
| **Predicted** | Human, Mouse, Rat, Rabbit, Zebrafish, Pig, Dog, Guinea Pig, Horse, Bovine |
| **Host** | Rabbit |
| **Clonality** | Polyclonal |
| **Calculated MW** | 40308 |

## Additional Information

| | |
|---|---|
| **Gene ID** | 54187 |
| **Alias Symbol** | SAS |
| **Other Names** | Sialic acid synthase, N-acetylneuraminate synthase, 2.5.1.56, N-acetylneuraminate-9-phosphate synthase, 2.5.1.57, N-acetylneuraminic acid phosphate synthase, N-acetylneuraminic acid synthase, NANS, SAS |
| **Format** | Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose. |
| **Reconstitution & Storage** | Add 50 ul of distilled water. Final anti-NANS antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles. |
| **Precautions** | NANS antibody - middle region is for research use only and not for use in diagnostic or therapeutic procedures. |

## Protein Information

| | |
|---|---|
| **Name** | NANS ( HGNC:19237) |
| **Synonyms** | SAS |
| **Function** | Catalyzes the condensation of phosphoenolpyruvate (PEP) and N-acetylmannosamine 6-phosphate (ManNAc-6-P) to synthesize N-acetylneuraminate-9-phosphate (Neu5Ac-9-P) (PubMed:10749855). Also catalyzes the condensation of PEP and D-mannose 6-phosphate (Man-6-P) to produce 3-deoxy-D-glycero-beta-D-galacto-non-2-ulopyranosonate 9-phosphate (KDN-9-P) (PubMed:10749855). Neu5Ac-9-P and KDN-9-P are the phosphorylated forms of sialic acids N-acetylneuraminic acid (Neu5Ac) and |

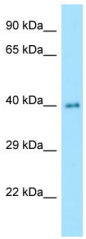
deaminoneuraminic acid (KDN), respectively (PubMed:10749855). Required for brain and skeletal development (PubMed:27213289).

**Tissue Location** Ubiquitous..

## References


Lawrence S.M.,et al.J. Biol. Chem. 275:17869-17877(2000).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Humphray S.J.,et al.Nature 429:369-374(2004).
Mural R.J.,et al.Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases.
Bienvenut W.V.,et al.Submitted (JAN-2010) to UniProtKB.


## Images




Host: Rabbit
Target Name: NANS
Antibody Dilution: 1.0µg/ml
Sample Tissue: Human Lung

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.