

## Mouse anti-Human NANS Monoclonal Antibody | anti-NANS antibody

NANS antibody

|                              |                      |                            |                                                                                     |
|------------------------------|----------------------|----------------------------|-------------------------------------------------------------------------------------|
| CATALOG #<br><b>AAA48102</b> | HOST<br><b>Mouse</b> | REACTIVITY<br><b>Human</b> | APPLICATIONS<br><b>Immunofluorescence, Immunocytochemistry, Western Blot, ELISA</b> |
|------------------------------|----------------------|----------------------------|-------------------------------------------------------------------------------------|

### PRODUCT SYNONYMS

NANS; Monoclonal Antibody; NANS antibody; Sialic acid synthase; SAS; N acetylneuraminate synthase; anti-NANS antibody

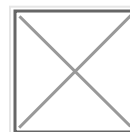
### PRODUCT SPECIFICATIONS

|                                                |                                                                                                                                                                               |
|------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                           | Mouse                                                                                                                                                                         |
| Reactivity                                     | Human                                                                                                                                                                         |
| Clonality                                      | Monoclonal                                                                                                                                                                    |
| Isotype                                        | IgG1, k                                                                                                                                                                       |
| Clone Number                                   | AT1G6                                                                                                                                                                         |
| Purity/Purification                            | By protein-G affinity chromatography                                                                                                                                          |
| Form/Format                                    | Liquid. In phosphate-buffered saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol.                                                                                          |
| Concentration                                  | 1mg/ml (varies by lot)                                                                                                                                                        |
| Sequence Length                                | 359                                                                                                                                                                           |
| Applicable Applications for anti-NANS antibody | IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot), ELISA                                                                                                  |
| Antigen Species                                | Human                                                                                                                                                                         |
| Immunogen                                      | Recombinant human NANS (1-359aa) purified from E. coli                                                                                                                        |
| Clone Note                                     | Anti-human NANS mAb, clone AT1G6, is derived from hybridization of mouse F0 myeloma cells with spleen cells from BALB/c mice immunized with a recombinant human NANS protein. |
| Preparation and Storage                        | Can be stored at 4 degree C.<br>For long term storage, aliquot and store at -20 degree C.<br>Avoid repeated freezing and thawing cycles.                                      |

### IMAGES



IF (Immunofluorescence)



WB (Western Blot)

The cell lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human NANS antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system. Lane 1.: HeLa cell lysate Lane 2.: HepG2 cell lysate The cell lysates (10ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human NANS antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system. Lane 1.: 293T cell lysate Lane 2.: NANS Transfected 293T cell lysate

ADDITIONAL INFORMATION

|                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-NANS antibody | NANS (Sialic acids synthase) is an enzyme that functions in the biosynthetic pathways of sialic acids. Expressed ubiquitously, NANS enzymatically catalyzes the H2O-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. |
| Product Categories/Family for anti-NANS antibody   | <a href="#">Proteases &amp; Inhibitors</a>                                                                                                                                                                                                                                                                                                                                                                                                                     |
| References                                         | Milstein O., et al. (2008) J Biol Chem. 283 (49):34414-22.; Aldape MJ., et al. (2007) J Infect Dis. 195 (12):1838-45.                                                                                                                                                                                                                                                                                                                                          |

NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                                            |
|----------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | <a href="#">12056473</a>                                                                                                   |
| NCBI GeneID                      | <a href="#">54187</a>                                                                                                      |
| NCBI Accession #                 | <a href="#">NP_061819</a>                                                                                                  |
| NCBI GenBank Nucleotide #        | <a href="#">NM_018946.3</a>                                                                                                |
| UniProt Accession #              | <a href="#">Q9NR45</a> ; <a href="#">Q8WUV9</a> ; <a href="#">Q9BWS6</a> ; <a href="#">Q9NVD4</a> ; <a href="#">B2RE98</a> |
| Molecular Weight                 | 40,308 Da                                                                                                                  |
| NCBI Official Full Name          | sialic acid synthase                                                                                                       |
| NCBI Official Synonym Full Names | N-acetylneuraminate synthase                                                                                               |
| NCBI Official Symbol             | NANS                                                                                                                       |
| NCBI Official Synonym Symbols    | SAS; SEMDG; SEMDCG; HEL-S-100                                                                                              |
| NCBI Protein Information         | sialic acid synthase                                                                                                       |
| UniProt Protein Name             | Sialic acid synthase                                                                                                       |
| UniProt Gene Name                | <b>NANS</b>                                                                                                                |
| UniProt Synonym Gene Names       | SAS                                                                                                                        |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/nans-antibody-clone-at1g6-immunofluorescence-immunocytochemistry-western-blot-elisa/48102>