

Mouse anti-Human NAGK Monoclonal Antibody | anti-NAGK antibody

NAGK antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA48119	Mouse	Human	Flow Cytometry, Functional Assay, Immunofluorescence, Immunocytochemistry, Western Blot, ELISA

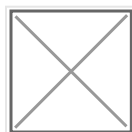
PRODUCT SYNONYMS

NAGK; Monoclonal Antibody; NAGK antibody; N-acetyl-D-glucosamine kinase; GNK; HSA242910; GlcNAc kinase; anti-NAGK antibody

PRODUCT SPECIFICATIONS

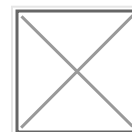
Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG1,k
Clone Number	AT4D12
Purity/Purification	By protein-G affinity chromatography
Form/Format	Liquid. In phosphate-buffered saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	344
Applicable Applications for anti-NAGK antibody	FCM/FACS (Flow Cytometry), IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot), ELISA
Antigen Species	Human
Immunogen	Recombinant human NAGK (1-344aa) purified from E. coli
Clone Note	Anti-human NAGK mAb, clone AT4D12, is derived from hybridization of mouse F0 myeloma cells with spleen cells from BALB/c mice immunized with a recombinant human NAGK protein.
Preparation and Storage	Can be stored at 4 degree C. For long term storage, aliquot and store at -20 degree C. Avoid repeated freezing and thawing cycles.

IMAGES



IF (Immunofluorescence)

ICC/IF analysis of NAGK in HeLa cells line, stained with DAPI (Blue) for nucleus staining and monoclonal anti-human NAGK antibody (1:100) with goat anti-mouse IgG-Alexa fluor 488 conjugate (Green).



WB (Western Blot)

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

ADDITIONAL INFORMATION

Related Product Information for anti-NAGK antibody	NAGK is a member of the eukaryotic-type N-acetylglucosamine kinase family. NAGK catalyzes the first committed step in arginine biosynthesis in organisms that perform the cyclic pathway of ornithine synthesis. In eukaryotic and bacterial oxygenic phototrophs, the activity of NAGK is controlled by the P (II) signal transduction protein. NAGK converts endogenous N-acetylglucosamine (GlcNAc), a key component of complex carbohydrates, from lysosomal degradation or alimentary sources into GlcNAc 6-phosphate.
Product Categories/Family for anti-NAGK antibody	Metabolism
References	Weihofen WA, Berger M, Chen H, et al. (2007). J. Mol. Biol. 364 (3): 388-99.; Weidanz JA, Campbell P, Moore D, et al. (1997). Br. J. Haematol. 95 (4): 645-53.; Hinderlich S., et al. (Jul 2000). Eur J Biochem 267 (11): 3301-8.

NCBI AND UNIPROT INFORMATION

NCBI GI #	49574508
NCBI GeneID	55577
NCBI Accession #	NP_060037.2
NCBI GenBank Nucleotide #	NM_017567.3
Molecular Weight	42,038 Da
NCBI Official Full Name	N-acetyl-D-glucosamine kinase
NCBI Official Synonym Full Names	N-acetylglucosamine kinase
NCBI Official Symbol	NAGK
NCBI Official Synonym Symbols	GNK; HSA242910
NCBI Protein Information	N-acetyl-D-glucosamine kinase
UniProt Protein Name	N-acetyl-D-glucosamine kinase
UniProt Gene Name	NAGK
UniProt Synonym Gene Names	N-acetylglucosamine kinase

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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/monoclonal/nagk-antibody-clone-at4d12-flow-cytometry-immunofluorescence-immunocytochemistry-western-blot-elisa/48119>