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

N acetylglucosamine kinase Polyclonal Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP58795

Specification

N acetylglucosamine kinase Polyclonal Antibody - Product Information

Application	**IHC-P**
Primary Accession	Q9UJ70
Reactivity	**Rat, Bovine**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**37376**

N acetylglucosamine kinase Polyclonal Antibody - Additional Information

Gene ID 55577

Other Names
N-acetyl-D-glucosamine kinase, N-acetylglucosamine kinase, 2.7.1.59, GlcNAc kinase, NAGK

Format
0.01M TBS(pH7.4), 0.09% (W/V) sodium azide and 50% Glyce

Storage
Store at -20 ℃ for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 ℃.

N acetylglucosamine kinase Polyclonal Antibody - Protein Information

Name NAGK {ECO:0000303|PubMed:36002575, ECO:0000312|HGNC:HGNC:17174}

Function
Converts endogenous N-acetylglucosamine (GlcNAc), a major component of complex carbohydrates, from lysosomal degradation or nutritional sources into GlcNAc 6-phosphate (PubMed:22692205). Involved in the N-glycolylneuraminic acid (Neu5Gc) degradation pathway: although human is not able to catalyze formation of Neu5Gc due to the inactive CMAHP enzyme, Neu5Gc is present in food and must be degraded (PubMed:22692205). Also has N-acetylmannosamine (ManNAc) kinase activity (By similarity). Also involved in innate immunity by promoting detection of bacterial peptidoglycan by NOD2: acts by catalyzing phosphorylation of muramyl dipeptide (MDP), a fragment of bacterial peptidoglycan, to generate 6-O-phospho-muramyl dipeptide, which acts as a direct ligand for NOD2 (PubMed:36002575).

Tissue Location
Ubiquitous..

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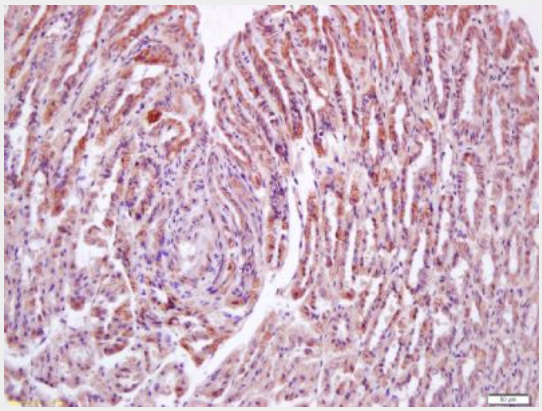
N acetylglucosamine kinase Polyclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

N acetylglucosamine kinase Polyclonal Antibody - Images



Tissue/cell: mouse stomach tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;
Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37℃ for 20 min;
Incubation: Anti-N acetylglucosamine kinase Polyclonal Antibody, Unconjugated(bs-7916R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining