

Product datasheet for **AP13659PU-N**

N acetylglucosamine kinase (NAGK) (C-term) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	Western blot: 1/50-1/100. Enzyme immunoassay: 1/1000.
Reactivity:	Human, Mouse
Host:	Rabbit
Isotype:	Ig
Clonality:	Polyclonal
Immunogen:	This antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide selected from the C-terminal region (between 308-337aa) of human NAGK.
Specificity:	This antibody reacts to NAGK.
Formulation:	PBS with 0.09% (W/V) sodium azide State: Purified State: Liquid purified Ig
Concentration:	lot specific
Purification:	Protein G column, eluted with high and low pH buffers and neutralized immediately, followed by dialysis against PBS
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	N-acetylglucosamine kinase
Database Link:	Entrez Gene 55577 Human Q9UJ70



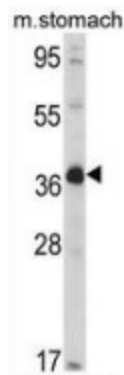
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Background:

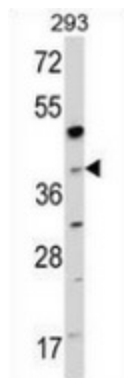
N-acetylglucosamine kinase (NAGK) converts endogenous N-acetylglucosamine (GlcNAc), a major component of complex carbohydrates, from lysosomal degradation or nutritional sources into GlcNAc 6-phosphate. NAGK belongs to the group of N-acetylhexosamine kinases and is a prominent salvage enzyme of amino sugar metabolism in mammals. The predicted 344-amino acid NAGK protein contains the 5 sequence motifs necessary for the binding of ATP by sugar kinases. NAGK shares 91.6% amino acid similarity with mouse Nagk, for which enzyme activity is detectable in all mouse tissues examined, with highest enzymatic activity in testis. It is hypothesized that NAGK has a general role in the catabolic pathways of GlcNAc as well as of ManNAc.

Synonyms:

GNK; HSA242910

Product images:

Western blot analysis of NAGK (arrow) in mouse stomach tissue lysates (35ug/lane) using NAGK antibody. (C-term).



Western blot analysis of NAGK (arrow) in 293 cell line lysates (35ug/lane) using NAGK antibody. (C-term).