

## Product datasheet for **AP13658PU-N**

### **N acetylglucosamine kinase (NAGK) (N-term) Rabbit Polyclonal Antibody**

#### **Product data:**

<b>Product Type:</b>	Primary Antibodies
<b>Applications:</b>	WB
<b>Recommended Dilution:</b>	ELISA: 1/1,000. Western blotting: 1/100 - 1/500.
<b>Reactivity:</b>	Human, Mouse
<b>Host:</b>	Rabbit
<b>Isotype:</b>	Ig
<b>Clonality:</b>	Polyclonal
<b>Immunogen:</b>	This antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide selected from the N-terminal region of human NAGK.
<b>Specificity:</b>	This antibody reacts to NAGK.
<b>Formulation:</b>	PBS with 0.09% (W/V) sodium azide State: Purified State: Liquid purified Ig
<b>Concentration:</b>	lot specific
<b>Purification:</b>	Protein G column, eluted with high and low pH buffers and neutralized immediately, followed by dialysis against PBS
<b>Conjugation:</b>	Unconjugated
<b>Storage:</b>	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
<b>Stability:</b>	Shelf life: one year from despatch.
<b>Gene Name:</b>	N-acetylglucosamine kinase
<b>Database Link:</b>	<a href="#">Entrez Gene 55577 Human Q9UJ70</a>



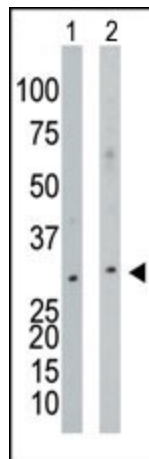
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**Background:**

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:**

The anti-NAGK Pab is used in Western blot to detect NAGK in mouse thymus tissue lysate (Lane 1) and Y79 cell lysate (Lane 2).