

## Product datasheet for **TA361214**

### Hexokinase 1 (HK1) Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	WB
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	The immunogen is a synthetic peptide directed towards the middle region of human HK1
Specificity:	<b>Expected reactivity:</b> Human
Formulation:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose. <i>Note that this product is shipped as lyophilized powder to China customers.</i>
Concentration:	lot specific
Purification:	Affinity purified
Conjugation:	Unconjugated
Storage:	For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	100 kDa
Gene Name:	hexokinase 1
Database Link:	<a href="#">NP_000179.2</a> <a href="#">Entrez Gene 3098 Human</a> <a href="#">P19367</a>



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**Background:**

Hexokinases phosphorylate glucose to produce glucose-6-phosphate, the first step in most glucose metabolism pathways. This gene encodes a ubiquitous form of hexokinase which localizes to the outer membrane of mitochondria. Mutations in this gene have been associated with hemolytic anemia due to hexokinase deficiency. Alternative splicing of this gene results in five transcript variants which encode different isoforms, some of which are tissue-specific. Each isoform has a distinct N-terminus; the remainder of the protein is identical among all the isoforms. A sixth transcript variant has been described, but due to the presence of several stop codons, it is not thought to encode a protein.

**Synonyms:**

HK1-ta; HK1-tb; HK1-tc; HKI; HXK1

**Protein Families:**

Druggable Genome

**Protein Pathways:**

Amino sugar and nucleotide sugar metabolism, Fructose and mannose metabolism, Galactose metabolism, Glycolysis / Gluconeogenesis, Insulin signaling pathway, Metabolic pathways, Starch and sucrose metabolism, Type II diabetes mellitus

**Product images:**

Host: Rabbit  
Target Name: HK1  
Sample Type: Neurofibroma Tumor Lysate  
Antibody Dilution: 1.0µg/ml

Host: Rabbit  
Target Name: HK1  
Sample Tissue: Human Neurofibroma Tumor lysates  
Antibody Dilution: 1ug/ml