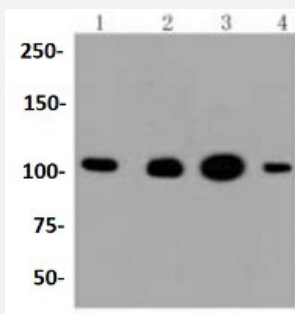


RecomAb™

HK1 recombinant monoclonal antibody

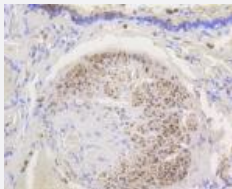
Catalog # RAB02753 Size 100 uL

Applications



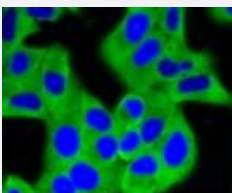
Western Blot (Cell lysate)

Western blot analysis of Lane1:HeLa whole cell lysate Lane2:293 whole cell lysate Lane3:MCF7 whole cell lysate Lane4:HepG2 whole cell lysate with HK1 recombinant monoclonal antibody (Cat # RAB02753) at 1:1000 dilution.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical analysis of paraffin-embedded human lung tissue using HK1 recombinant monoclonal antibody (Cat # RAB02753). Counter stained with hematoxylin.



Immunocytochemistry

Immunocytochemical staining of HeLa cells using HK1 recombinant monoclonal antibody (Cat # RAB02753)(green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton *100/PBS.

Specification

Product Description

Rabbit recombinant monoclonal antibody raised against HK1.

Antibody Species	Rabbit
Immunogen	Original antibody is raised against recombinant HK1.
Theoretical MW (kDa)	102
Reactivity	Human, Rat
Specificity	This antibody detects endogenous levels of HXK I and does not cross-react with related proteins.
Form	Liquid
Purification	Protein A purification
Isotype	IgG
Recommend Usage	Flow Cytometry (1:50-1:100) Immunocytochemistry (1:50-1:200) Immunofluorescence (1:50-1:200) Immunohistochemistry (1:50-1:200) Western Blot (1:1000-1:2000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH7.2 (50% glycerol and 0.02% sodium azide)
Storage Instruction	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze-thaw cycles.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot (Cell lysate)

Western blot analysis of Lane1:Hela whole cell lysate Lane2:293 whole cell lysate Lane3:MCF7 whole cell lysate Lane4:HepG2 whole cell lysate with HK1 recombinant monoclonal antibody (Cat # RAB02753) at 1:1000 dilution.

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

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- Immunocytochemistry

Immunocytochemical staining of HeLa cells using HK1 recombinant monoclonal antibody (Cat # RAB02753)(green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton *100/PBS.

- Immunofluorescence
- Flow Cytometry

Gene Info — HK1

Entrez GeneID [3098](#)

Protein Accession# [P19367](#)

Gene Name HK1

Gene Alias HK1-ta, HK1-tb, HK1-tc, HKI, HXK1

Gene Description hexokinase 1

Omim ID [142600](#)

Gene Ontology [Hyperlink](#)

Gene Summary 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. [provided by RefSeq]

Other Designations OTTHUMP00000019725|brain form hexokinase|glycolytic enzyme

Pathway

- [Amino sugar and nucleotide sugar metabolism](#)
- [Biosynthesis of alkaloids derived from histidine and purine](#)
- [Biosynthesis of alkaloids derived from ornithine](#)
- [Biosynthesis of alkaloids derived from shikimate pathway](#)
- [Biosynthesis of alkaloids derived from terpenoid and polyketide](#)
- [Biosynthesis of phenylpropanoids](#)

- [Biosynthesis of plant hormones](#)
- [Biosynthesis of terpenoids and steroids](#)
- [Fructose and mannose metabolism](#)
- [Galactose metabolism](#)
- [Glycolysis / Gluconeogenesis](#)
- [Insulin signaling pathway](#)
- [Metabolic pathways](#)
- [Starch and sucrose metabolism](#)
- [Streptomycin biosynthesis](#)
- [Type II diabetes mellitus](#)

Disease

- [Alzheimer Disease](#)
- [Attention Deficit Disorder with Hyperactivity](#)
- [Diabetes Mellitus](#)
- [Diseases in Twins](#)
- [Genetic Predisposition to Disease](#)
- [Obesity](#)
- [Tobacco Use Disorder](#)