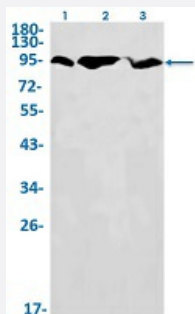


RecomAb™

HK1 recombinant monoclonal antibody, clone R02-4A8

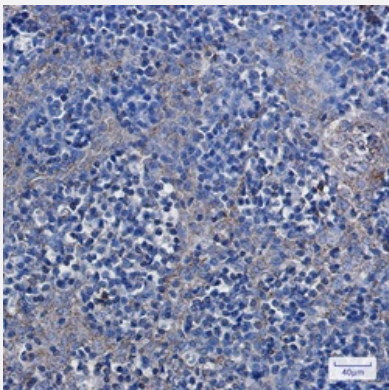
Catalog # RAB02228 Size 100 uL

Applications



Western Blot

Western Blot analysis of Lane 1: K562, Lane 2: rat brain and Lane 3: 3T3 lysates with HK1 recombinant monoclonal antibody, clone R02-4A8 (Cat # RAB02228).



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

Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human tonsil with HK1 recombinant monoclonal antibody, clone R02-4A8 (Cat # RAB02228). High-pressure and temperature Sodium Citrate pH 6.0 was used for antigen retrieval.

Specification

Product Description	Rabbit recombinant monoclonal antibody raised against human HK1.
Antibody Species	Rabbit
Immunogen	Original antibody is raised against a synthetic peptide corresponding to human HK1.
Theoretical MW (kDa)	Calculated MW: 102 k
Reactivity	Human, Mouse, Rat

Form	Liquid
Purification	Affinity purification
Isotype	IgG
Recommend Usage	Immunofluorescence(1:50-1:200) Immunohistochemistry (1:50-1:100) Western Blot (1:500-1:1000) The optimal working dilution should be determined by the end user.
Storage Buffer	In 50 mM Tris-Glycine, pH 7.4 (0.15 M NaCl, 40% Glycerol, 0.01% Sodium azide and 0.05% BSA)
Storage Instruction	Store at -20 °C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot

Western Blot analysis of Lane 1: K562, Lane 2: rat brain and Lane 3: 3T3 lysates with HK1 recombinant monoclonal antibody, clone R02-4A8 (Cat # RAB02228).

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Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human tonsil with HK1 recombinant monoclonal antibody, clone R02-4A8 (Cat # RAB02228). High-pressure and temperature Sodium Citrate pH 6.0 was used for antigen retrieval.

- Immunohistochemistry

- Immunofluorescence

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](#)