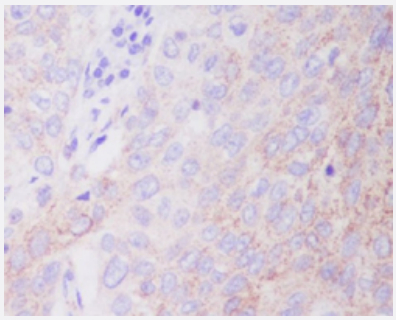
HK1 monoclonal antibody, clone EOF-8

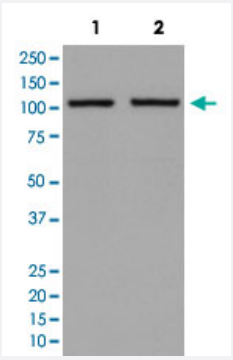
Catalog # MAB20138 Size 100 uL

Applications



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

Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human lung carcinoma with HK1 monoclonal antibody, clone EOF-8 (Cat # MAB20138).



Western Blot (Cell lysate)

Western Blot analysis of Lane 1: MCF-7 and Lane 2: 293T cell lysates with HK1 monoclonal antibody, clone EOF-8 (Cat # MAB20138).

Specification

Product Description	Rabbit monoclonal antibody raised against synthetic peptide of human HK1.
Immunogen	A synthetic peptide corresponding to human HK1.
Host	Rabbit
Theoretical MW (kDa)	102.486
Reactivity	Human
Form	Liquid

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Purification	Affinity purification
Isotype	IgG
Recommend Usage	Flow Cytometry (1:200) Immunocytochemistry (1:50-1:200) Immunofluorescence (1:50-1:200) Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (1:50-1:200) Western Blot (1:500-1:2000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, 150 mM NaCl, pH 7.4 (50% glycerol, 0.02% sodium azide).
Storage Instruction	Store at -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and st ored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

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

  Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human lung carcinoma with HK1 monoclonal antibody, clone EOF-8 (Cat # MAB20138).

- Immunofluorescence
- Immunocytochemistry
- Flow Cytometry
- Western Blot (Cell lysate)

  Western Blot analysis of Lane 1: MCF-7 and Lane 2: 293T cell lysates with HK1 monoclonal antibody, clone EOF-8 (Cat # MAB20138).

Gene Info — HK1

Entrez GeneID	3098
Protein Accession#	P19367
Gene Name	HK1
Gene Alias	HK1-ta, HK1-tb, HK1-tc, HKI, HXK1

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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

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- 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

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