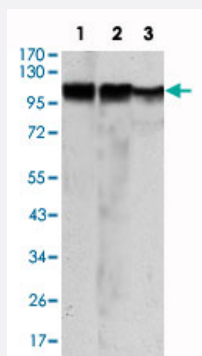


HK2 monoclonal antibody, clone 3D3

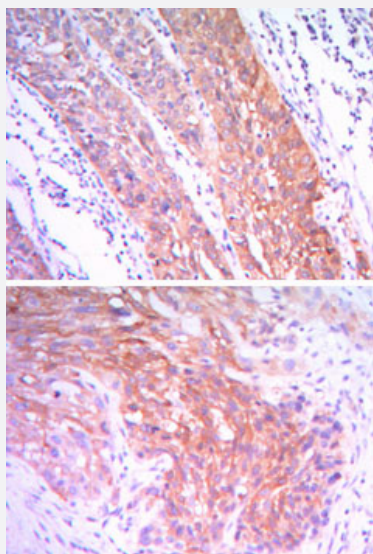
Catalog # MAB10684 Size 100 uL

Applications



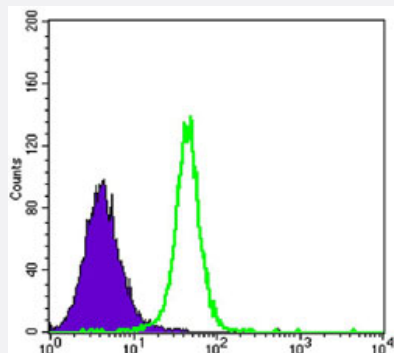
Western Blot (Cell lysate)

Western blot analysis using HK2 monoclonal antibody, clone 3D3 (Cat # MAB10684) against Jurkat (1) , HeLa (2) and HEK293 (3) cell lysate.



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

Immunohistochemical analysis of paraffin-embedded human esophagus cancer tissues (upper) and human lung cancer (bottom) using HK2 monoclonal antibody, clone 3D3 (Cat # MAB10684) with DAB staining.



Flow Cytometry

Flow cytometric analysis of K-562 cells using HK2 monoclonal antibody, clone 3D3 (Cat # MAB10684) (green) and negative control (purple).

Specification

Product Description	Mouse monoclonal antibody raised against partial recombinant HK2.
Immunogen	Recombinant protein corresponding to human HK2.
Host	Mouse
Theoretical MW (kDa)	102
Reactivity	Human
Form	Liquid
Isotype	IgG1
Recommend Usage	ELISA (1:10000) Western Blot (1:500-1:2000) Immunohistochemistry (1:200-1:1000) Flow cytometry (1:200-1:400) The optimal working dilution should be determined by the end user.
Storage Buffer	In ascites (0.03% sodium azide)
Storage Instruction	Store at 4°C. For long term storage 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 (Cell lysate)

Western blot analysis using HK2 monoclonal antibody, clone 3D3 (Cat # MAB10684) against Jurkat (1) , HeLa (2) and HEK293 (3) cell lysate.

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

Immunohistochemical analysis of paraffin-embedded human esophagus cancer tissues (upper) and human lung cancer (bottom) using HK2 monoclonal antibody, clone 3D3 (Cat # MAB10684) with DAB staining.

- Enzyme-linked Immunoabsorbent Assay

- Flow Cytometry

Flow cytometric analysis of K-562 cells using HK2 monoclonal antibody, clone 3D3 (Cat # MAB10684) (green) and negative control (purple).

Gene Info — HK2

Entrez GeneID [3099](#)

Gene Name HK2

Gene Alias DKFZp686M1669, HKII, HXK2

Gene Description hexokinase 2

Omim ID [601125](#)

Gene Ontology [Hyperlink](#)

Gene Summary Hexokinases phosphorylate glucose to produce glucose-6-phosphate, the first step in most glucose metabolism pathways. This gene encodes hexokinase 2, the predominant form found in skeletal muscle. It localizes to the outer membrane of mitochondria. Expression of this gene is insulin-responsive, and studies in rat suggest that it is involved in the increased rate of glycolysis seen in rapidly growing cancer cells. [provided by RefSeq]

Other Designations hexokinase-2, muscle

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](#)