

Mouse anti-Human Hexokinase Monoclonal Antibody | anti-HK1 antibody

Hexokinase

CATALOG # AAA48339	HOST Mouse	REACTIVITY Human	APPLICATIONS Immunofluorescence, Immunocytochemistry, Western Blot, ELISA
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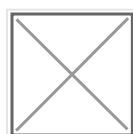
PRODUCT SYNONYMS

Hexokinase; Monoclonal Antibody; HK1; Hexokinase 1; EC 2.7.1.1; Hexokinase type I; HK I; Brain form hexokinase; Hexokinase-1; BB404130; dea; Glycolytic enzyme; HEXOKIN; Hexokinase PI; tumorisozyme; Hexokinase-A; HK1 tb; Hk1-s; HK1-ta; HK1-tc; HKI; HXK1; mHk1-s; anti-HK1 antibody

PRODUCT SPECIFICATIONS

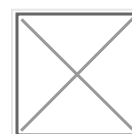
Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG2a kappa
Clone Number	4D7
Purity/Purification	By protein-A affinity chromatography
Form/Format	Liquid. In Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% Glycerol
Concentration	1mg/ml (varies by lot)
Sequence Length	917
Applicable Applications for anti-HK1 antibody	IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot), ELISA
Antigen Species	Human
Immunogen	Recombinant human Hexokinase1 (1-917aa) purified from E. coli
Conjugation	Unconjugated
Note	This product was produced from tissue culture supernatant.
Preparation and Storage	Can be stored at 2 degree C to 8 degree C for 1 week. For long term storage, aliquot and store at -20 degree C to -80 degree C. Avoid repeated freezing and thawing cycles.

IMAGES



WB (Western Blot)

The recombinant proteins (20ng) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human Hexokinase antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system. Lane 1.: Recombinant human Hexokinase1 protein Lane 2.: Recombinant human Hexokinase2 protein Lane 3.: Recombinant human Hexokinase3 protein Lane 4.: Recombinant human Hexokinase4 protein



ICC (Immunocytochemistry)

ICC/IF analysis of Hexokinase in HeLa cells. The cell was stained (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).

ADDITIONAL INFORMATION

Related Product Information for anti-HK1 antibody	Hexokinase is the first enzyme in the glycolytic pathway, catalyzing the transfer of a phosphoryl group fromATP to glucose to form glucose-6-phosphate and ADP. In mammals, four distinct enzymes-types 1 to 4hexokinases-have been identified. The enzyme is found in most cells, but there is tissue specificity for theparticular type of hexokinase. Hexokinase1 is found in the adipose tissue and liver and encodes a ubiquitous formof hexokinase which localizes to the outer membrane of mitochondria. Mutations in this hexokinase1 have beenassociated with hemolytic anemia due to hexokinase deficiency.
Product Categories/Family for anti-HK1 antibody	Cancer; Cardiovascular; Lysates; Metabolism; Other; Signal Transduction
References	Ellison W R. et al., (1975) J Biol Chem 250:1864-1871.; Furuta H. et al., (1996) Genomics 36(1):206-9.; Jon E. et al., (2003) J.Exp Biology 206:2049-2057.

NCBI AND UNIPROT INFORMATION

NCBI GI #	188497754
NCBI GeneID	3098
NCBI Accession #	NP_000179
NCBI GenBank Nucleotide #	NP_000179.2
UniProt Accession #	P19367
NCBI Official Full Name	hexokinase-1 isoform HKI
NCBI Official Synonym Full Names	hexokinase 1
NCBI Official Symbol	HK1
NCBI Official Synonym Symbols	HK; HKD; HKI; HXK1; RP79; HMSNR; HK1-ta; HK1-tb; HK1-tc; NEDVIBA; hexokinase
NCBI Protein Information	hexokinase-1
UniProt Protein Name	Hexokinase-1
UniProt Gene Name	HK1
UniProt Synonym Gene Names	HK I
UniProt Entry Name	HXK1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/hexokinase-antibody-clone-4d7-immunofluorescence-immunocytochemistry-western-blot-elisa/48339>