

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

Hexokinase antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA48002	Mouse	Human	Immunofluorescence, Immunocytochemistry, Western Blot, ELISA

PRODUCT SYNONYMS

Hexokinase; Monoclonal Antibody; Hexokinase 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; tumor isozyme; 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, k
Clone Number	4D7
Purity/Purification	By protein-G 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
Clone Note	Anti-human Hexokinase1 mAb, clone 4D7, is derived from hybridization of mouse SP2/0 myeloma cells with spleen cells from BALB/c mice immunized with a recombinant human Hexokinase1 protein.
Preparation and Storage	Can be stored at 4 degree C. For long term storage, aliquot and store at -20 degree C. Avoid repeated freezing and thawing cycles.

IMAGES



IF (Immunofluorescence)

Immunofluorescence of human HeLa cells stained with Hoechst 33342 (Blue) and monoclonal anti-Hexokinase antibody (1:1000) with Alexa 488 (Green).



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.: Hexokinase 1 recombinant protein Lane 2.: Hexokinase 2 recombinant protein Lane 3.: Hexokinase 3 recombinant protein Lane 4.: Hexokinase 4 recombinant protein The cell lysates (40ug) 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.: HepG2 cell lysate Lane 2.: HeLa cell lysate Lane 3.: Jurkat cell lysate Lane 4.: K562 cell lysate The tissue lysate (40ug) 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.: Brain tissue lysate

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 from ATP to glucose to form glucose-6-phosphate and ADP. In mammals, four distinct enzymes-types 1 to 4 hexokinases-have been identified. The enzyme is found in most cells, but there is tissue specificity for the particular type of hexokinase. Hexokinase1 is found in the adipose tissue and liver and encodes a ubiquitous form of hexokinase which localizes to the outer membrane of mitochondria. Mutations in this hexokinase1 have been associated with hemolytic anemia due to hexokinase deficiency.
Product Categories/Family for anti-HK1 antibody	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 #	NM_000188.2
UniProt Accession #	P19367; O43443; O43444; O75574; Q5VTC3; Q96HC8; Q9NNZ4; Q9NNZ5; E9PCKO
Molecular Weight	101,085 Da
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; hexokinase
NCBI Protein Information	hexokinase-1
UniProt Protein Name	Hexokinase-1
UniProt Gene Name	HK1
UniProt Synonym Gene Names	HK I

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/48002>