

Rabbit HK2 Polyclonal Antibody | anti-HK2 antibody

HK2 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA325958	Rabbit	Human, Mouse, Rat	ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot

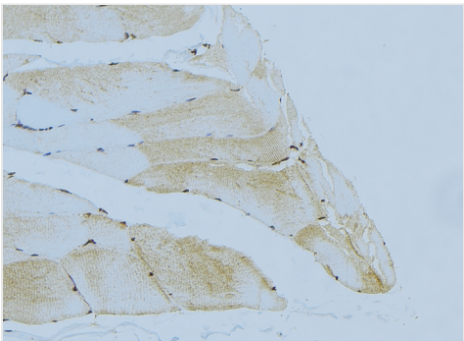
PRODUCT SYNONYMS

HK2; Polyclonal Antibody; HK2 Antibody; DKFZp686M1669; Hexokinase 2; Hexokinase 2 muscle; Hexokinase type II; Hexokinase-2; HK 2; HK II; HKII; HxK 2; HxK2; HXK2_HUMAN; Muscle form hexokinase; anti-HK2 antibody

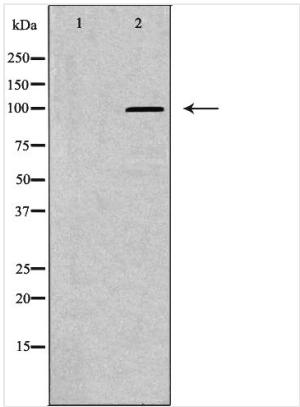
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	HK2 antibody detects endogenous levels of total HK2
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	917
Applicable Applications for anti-HK2 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human HK2
Subcellular Location	Mitochondrion Outer Membrane. Its hydrophobic N-terminal sequence may be involved in membrane binding.
Tissue Specificity	Predominant hexokinase isozyme expressed in insulin-responsive tissues such as skeletal muscle.
Predicted Cross Reactivity	Pig, Bovine, Horse, Sheep, Dog, Chicken, Xenopus
Similarity	Pig (100%), Bovine (100%), Horse (100%), Sheep (100%), Dog (100%), Chicken (100%), Xenopus (80%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

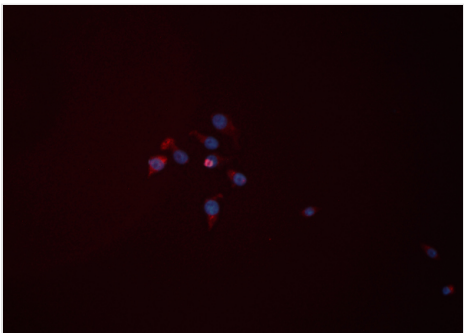
IMAGES



IHC (Immunohistochemistry)
AAA325958 at 1/100 staining Mouse muscle tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



WB (Western Blot)
Western blot analysis of extracts of hela, using HK2 antibody. The lane on the left is treated with the antigen-specific peptide.



IF (Immunofluorescence)
AAA325958 staining HEPG2 cells by ICC/IF. Cells were fixed with PFA and permeabilized in 0.1% saponin prior to blocking in 10% serum for 45 minutes at 37 degree C. The primary antibody was diluted 1/200 and incubated with the sample for 1 hour at 37 degree C. A Alexa Fluor 594 conjugated goat polyclonal to rabbit IgG (H+L), diluted 1/600 was used as secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-HK2 antibody

Description: Hexokinase catalyzes the conversion of glucose to glucose-6-phosphate, the first step in glycolysis. Four distinct mammalian hexokinase isoforms, designated as hexokinase I, II, III, and IV (glucokinase), have been identified. Hexokinases I, II, and III are associated with the outer mitochondrial membrane and are critical for maintaining an elevated rate of aerobic glycolysis in cancer cells (Warburg Effect) (1) in order to compensate for the increased energy demands associated with rapid cell growth and proliferation (2, 3).

Function: In vertebrates there are four major glucose-phosphorylating isoenzymes, designated hexokinase I, II, III and IV (glucokinase).

Subunit Structure: Monomer (By similarity). Interacts with TIGAR; the interaction increases hexokinase HK2 activity in a hypoxia-and HIF1A-dependent manner (PubMed:23185017).

Similarity: The N-and C-terminal halves of this hexokinase show extensive sequence similarity to each other. The catalytic activity is associated with the C-terminus while regulatory function is associated with the N-terminus. Each domain can bind a single glucose and Gluc-6-P molecule. Belongs to the hexokinase family.

NCBI AND UNIPROT INFORMATION

NCBI GI #	15553127
NCBI GeneID	3099
NCBI Accession #	NP_000180.2
NCBI GenBank Nucleotide #	NM_000189.4
UniProt Accession #	P52789; Q8WU87; Q9UN82; D6W5J2

Molecular Weight	Observed: 102 kDa Predicted: 103 kDa
NCBI Official Full Name	hexokinase-2
NCBI Official Synonym Full Names	hexokinase 2
NCBI Official Symbol	HK2
NCBI Official Synonym Symbols	HKII; HXK2
NCBI Protein Information	hexokinase-2
UniProt Protein Name	Hexokinase-2
UniProt Gene Name	HK2
UniProt Synonym Gene Names	HK II

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/polyclonal/hk2-antibody-immunocytochemistry-immunofluorescence-immunohistochemistry-western-blot-elisa/325958>