Rabbit HK2 (Hexokinase II) Polyclonal Antibody | anti-HK2 antibody

HK2 (Hexokinase II) Antibody (N-term)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA287673	**Rabbit**	**Human (Predicted Reactivity: Mouse, Pig, Rat)**	**Western Blot, Immunohistochemistry, ELISA**

PRODUCT SYNONYMS

HK2 (Hexokinase II); Polyclonal Antibody; HK2 (Hexokinase II) Antibody (N-term); Hexokinase-2; Hexokinase type II; HK II; Muscle form hexokinase; HK2; anti-HK2 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human (Predicted Reactivity: Mouse, Pig, Rat)
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This HK2 (Hexokinase II) antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 91-121 amino acids from the N-terminal region of human HK2 (Hexokinase II).
Purity/Purification	Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Concentration	Vial Concentration: 0.5 (varies by lot)
Sequence Positions	91-121
Sequence Length	917
Applicable Applications for anti-HK2 antibody	WB (Western Blot), IHC (Immunohistochemistry), ELISA
Antigen Type	Synthetic Peptide
Crown Antibody	Yes
Antigen Source	HUMAN
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.

IMAGES

IHC (Immunohiostchemistry)
Formalin-fixed and paraffin-embedded human skeletal muscle tissue reacted with HK2 antibody (N-term), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

WB (Western Blot)
HK2 Antibody (E106) western blot analysis in Hela cell line lysates (35ug/lane).This demonstrates the HK2 antibody detected the HK2 protein (arrow).

ADDITIONAL INFORMATION

Related Product Information for anti-HK2 antibody	In vertebrates there are four major glucose-phosphorylating isoenzymes, designated hexokinase I, II, III, and IV. Hexokinase is an allosteric enzyme inhibited by its product GLC-6-P. Hexokinase activity is involved in the first step in several metabolic pathways. HK3 is bound to the outer mitochondrial membrane. Its hydrophobic N-terminal sequence may be involved in membrane bindng. It is the predominant hexokinase isozyme expressed in insuline-responsive tissues such as skeletal muscle. 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 wiht the N-terminus. Although found in NIDDM patients, genetic variations of HK2 do not contribute to the disease.
Product Categories/Family for anti-HK2 antibody	Crown Antibodies; Cancer; Cardiovascular; Metabolism; Signal Transduction
References	Lehto, M., et al., Diabetologia 38(12):1466-1474 (1995). Vidal-Puig, A., et al., Diabetes 44(3):340-346 (1995). Laakso, M., et al., Diabetes 44(3):330-334 (1995). Echwald, S.M., et al., Diabetes 44(3):347-353 (1995). Shinohara, Y., et al., Cancer Lett. 82(1):27-32 (1994).

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	102380
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
UniProt Entry Name	HXK2_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/polyclonal/hk2-hexokinase-ii-antibody-western-blot-immunohistochemistry-elisa/287673