

Rabbit Hexokinase 1 Polyclonal Antibody | anti-HK1 antibody

Hexokinase 1 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA40851	Rabbit	Human, Mouse, Rat	Immunofluorescence, Immunohistochemistry, Western Blot, ELISA

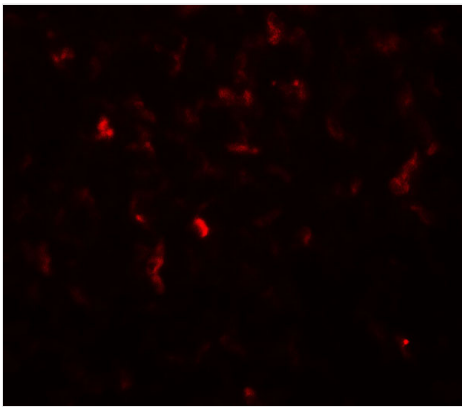
PRODUCT SYNONYMS

Hexokinase 1; Polyclonal Antibody; Hexokinase 1 Antibody; HK; HXK; anti-HK1 antibody

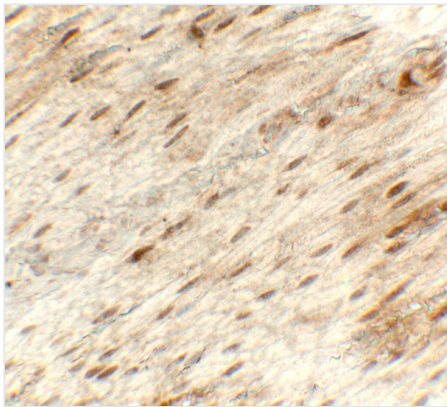
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	Hexokinase 1 antibody is human, mouse and rat reactive. Multiple isoforms of Hexokinase 1 are known to exist.
Purity/Purification	Affinity chromatography purified via peptide column.
Form/Format	Liquid
Concentration	1 mg/mL (varies by lot)
Sequence Length	917
Applicable Applications for anti-HK1 antibody	IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot), ELISA
Immunogen	Hexokinase 1 antibody was raised against a 16 amino acid peptide near the carboxy terminus of human Hexokinase 1.
Buffer	Supplied in PBS containing 0.02% sodium azide.
Positive Control 1	Rat Bladder Tissue Lysate
Conjugate	Unconjugated
Preparation and Storage	Store at 4 degree C for three months and -20 degree C, stable for up to one year.

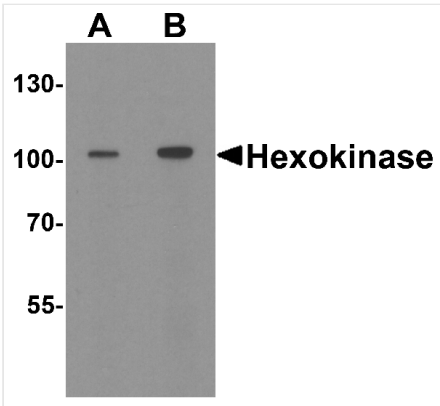
IMAGES



IF (Immunofluorescence)
Immunofluorescence of Hexokinase 1 in rat stomach tissue with Hexokinase 1 antibody at 20 μg/mL.



IHC (Immunohistochemistry)
Immunohistochemistry of Hexokinase 1 in rat stomach tissue with Hexokinase 1 antibody at 5 μg/mL.



WB (Western Blot)
Western blot analysis of Hexokinase 1 in rat bladder tissue lysate with Hexokinase 1 antibody at (A) 1 and (B) 2 μg/mL.

ADDITIONAL INFORMATION

Related Product Information for anti-HK1 antibody	There are four major glucose-phosphorylating isoenzymes, designated Hexokinase 1 I, II, III, and IV (1). Hexokinase 1 activity is involved in the first step in several metabolic pathways including phosphorylation of glucose to produce glucose-6-phosphate, thus committing glucose to the glycolytic pathway (1,2). Hexokinase 1 2 is the predominant Hexokinase 1 isozyme expressed in insulin-responsive tissues such as skeletal muscle and its expression is insulin-responsive (3). It is involved in the increased rate of glycolysis seen in rapidly growing cancer cells (4).
Product Categories/Family for anti-HK1 antibody	Homeostasis
References	Chen T, Ning D, Sun H, et al. Sequence Analysis and Molecular Characterization of Clonorchis sinensis Hexokinase 1, an Unusual Trimeric 50-kDa Glucose-6-Phosphate-Sensitive Allosteric Enzyme. PLoS One 2014; 9:e107940. Halestrap AP, Pereira GC, and Pasdois P. The role of Hexokinase 1 in cardioprotection-mechanism and potential for translation. Br. J. Pharmacol. 2014; epub. Roberts DJ and Miyamoto S. Hexokinase 1 II integrates energy metabolism and cellular protection: Acting on mitochondria and TORCing to autophagy. Cell Death Differ. 2014; epub. Wang L, Xiong H, Wu F, et al. Hexokinase 1 2-Mediated Warburg Effect Is Required for PTEN- and p53-Deficiency-Driven Prostate Cancer Growth. Cell Rep. 2014; 8:1461-74.

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 ; E9PCK0
Molecular Weight	Predicted: 101 kDa Observed: 103 kDa
NCBI Official Full Name	hexokinase-1 isoform HKI
NCBI Official Synonym Full Names	hexokinase 1
NCBI Official Symbol	HK1
NCBI Official Synonym Symbols	HKD; HKI; HXK1; HMSNR; HK1-ta; HK1-tb; HK1-tc
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/polyclonal/hexokinase-1-antibody-immunofluorescence-immunohistochemistry-western-blot-elisa/40851>