

Rabbit anti-Human HK1 Polyclonal Antibody | anti-HK1 antibody

HK1 Antibody (C-term)

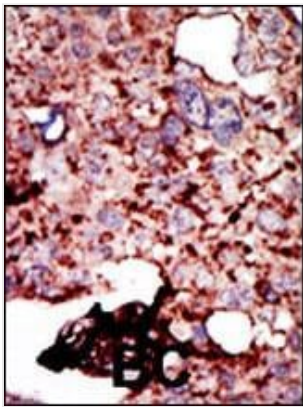
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA286291	Rabbit	Human	Western Blot, Immunohistochemistry, ELISA

PRODUCT SYNONYMS

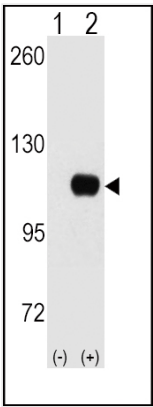
HK1; Polyclonal Antibody; HK1 Antibody (C-term); Hexokinase-1; Brain form hexokinase; Hexokinase type I; HK I; anti-HK1 antibody

PRODUCT SPECIFICATIONS

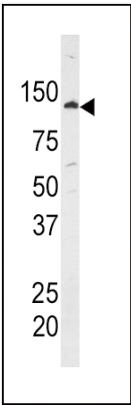
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This HK1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 705-734 amino acids from the C-terminal region of human HK1.
Purity/Purification	Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Concentration	Vial Concentration: 2 (varies by lot)
Sequence Positions	705-734
Sequence Length	917
Applicable Applications for anti-HK1 antibody	WB (Western Blot), IHC (Immunohistochemistry), ELISA
Antigen Type	Synthetic Peptide
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.



IHC (Immunohistochemisry)
Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, 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. BC = breast carcinoma; HC = hepatocarcinoma.



WB (Western Blot)
Western blot analysis of HK1 (arrow) using HK1 Antibody (C-term). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the HK1 gene (Lane 2) (Origene Technologies).



WB (Western Blot)
Western blot analysis of anti-HK1 Antibody (C-term) in A375 cell line lysate. HK1(arrow) was detected using the purified Pab.

ADDITIONAL INFORMATION

Related Product Information for anti-HK1 antibody	Hexokinases phosphorylate glucose to produce glucose-6-phosphate, thus committing glucose to the glycolytic pathway. The hexokinase gene encodes a ubiquitous form of hexokinase which localizes to the outer membrane of mitochondria. Mutations in this gene have been associated with hemolytic anemia due to hexokinase deficiency. Alternative splicing of the hexokinase gene results in five transcript variants which encode different isoforms, some of which are tissue-specific. Each isoform has a distinct N-terminus; the remainder of the protein is identical among all the isoforms. HK1 encodes the ubiquitously expressed isoform. Its 5' end includes an exon which is unique to this transcript and which encodes a distinct N-terminus that contains the porin binding domain (PBD). The porin binding domain mediates association with the mitochondrial membrane.
Product Categories/Family for anti-HK1 antibody	Cancer; Cardiovascular; Metabolism; Signal transduction
References	van Wijk, R., et al., Blood 101(1):345-347 (2003). Murakami, K., et al., Acta Haematol. 108(4):204-209 (2002). Murakami, K., et al., Mol. Genet. Metab. 67(2):118-130 (1999). Aleshin, A.E., et al., Structure 6(1):39-50 (1998). Ruzzo, A., et al., Blood 91(1):363-364 (1998).

NCBI AND UNIPROT INFORMATION

NCBI GI #	188497754
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NCBI GeneID	3098
NCBI Accession #	NP_000179.2; NP_277031.1; NP_277032.1; NP_277033.1; NP_277035.2
NCBI GenBank Nucleotide #	NM_000188.2
UniProt Accession #	P19367; O43443; O43444; O75574; Q5VTC3; Q96HC8; Q9NNZ4; Q9NNZ5; E9PCK0
Molecular Weight	102486
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/hk1-antibody-western-blot-immunohistochemistry-elisa/286291>