

Rabbit anti-Human, Rat Hexokinase 1 Polyclonal Antibody | anti-HK1 antibody

Phospho-Hexokinase 1 (Tyr732) Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA329285	Rabbit	Human, Rat	ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry

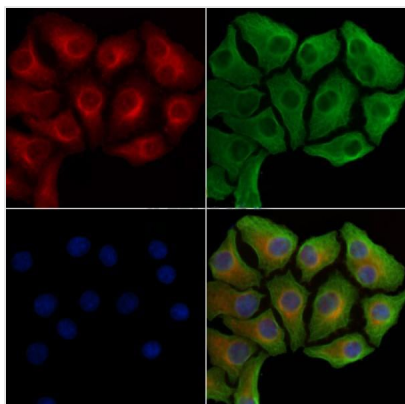
PRODUCT SYNONYMS

Hexokinase 1; Polyclonal Antibody; Phospho-Hexokinase 1 (Tyr732) Antibody; BB404130; Brain form hexokinase; dea; DrHKK1; EC 2.7.1.1; Glycolytic enzyme; HEXOKIN; hexokinase I; Hexokinase PI; Hexokinase type I; Hexokinase; tumor isozyme; Hexokinase-1; Hexokinase-A; HK I; HK1; HK1 tb; Hk1-s; HK1-ta; HK1-tb; HK1-tc; HKD; HKI; HMSNR; HXK1; HXK1_HUMAN; im:7148527; mHk1-s; wu:fc09d08; wu:fc16e02; wu:fc21e02; wu:fc14b11; zgc:55790; zgc:77618; anti-HK1 antibody

PRODUCT SPECIFICATIONS

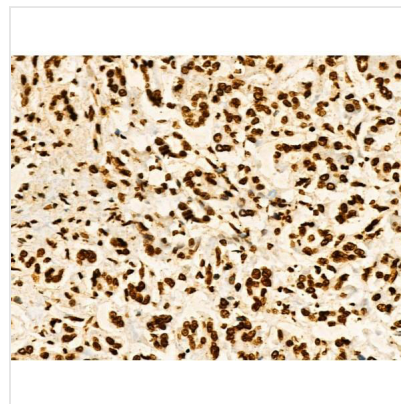
Host	Rabbit
Reactivity	Human, Rat
Clonality	Polyclonal
Specificity	Phospho-Hexokinase 1 (Tyr732) Antibody detects endogenous levels of Hexokinase 1 only when phosphorylated at Tyr732.
Purity/Purification	Peptide affinity purification
Form/Format	IgG in phosphate buffered saline , pH 7.4, 150mMNaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Applicable Applications for anti-HK1 antibody	ELISA (Peptide ELISA), ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry)
Immunogen	A synthesized peptide derived from human Hexokinase 1 around the phosphorylation site of Tyr732.
Preparation and Storage	Store at -20°C.

IMAGES



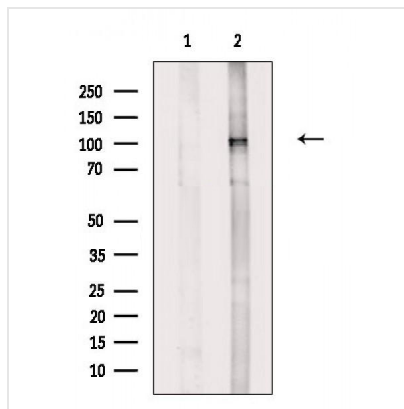
Application Data

AAA329285 staining HeLa cells (heat shock treatment) by IF/ICC. The samples were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25°C. Samples were then incubated with primary Ab (AAA329285) and mouse anti-beta tubulin Ab for 1 hour at 37°C. An AlexaFluor594 conjugated goat anti-rabbit IgG (H+L) Ab (Red) and an AlexaFluor488 conjugated goat anti-mouse IgG (H+L) Ab (Green) were used as the secondary antibody.



IHC (Immunohistochemistry)

Staining Human pancreatic cancer and adjacent normal tissues 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 primary antibody at 4 degree C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



WB (Western Blot)

Western blot analysis of extracts from PC12(1ps4h treatment), using Phospho-Hexokinase 1 (Tyr732) Antibody. The lane on the left was treated with blocking peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-HK1 antibody

Catalyzes the phosphorylation of various hexoses, such as D-glucose, D-glucosamine, D-fructose, D-mannose and 2-deoxy-D-glucose, to hexose 6-phosphate (D-glucose 6-phosphate, D-glucosamine 6-phosphate, D-fructose 6-phosphate, D-mannose 6-phosphate and 2-deoxy-D-glucose 6-phosphate, respectively). Does not phosphorylate N-acetyl-D-glucosamine. Mediates the initial step of glycolysis by catalyzing phosphorylation of D-glucose to D-glucose 6-phosphate (By similarity). Involved in innate immunity and inflammation by acting as a pattern recognition receptor for bacterial peptidoglycan. When released in the cytosol, N-acetyl-D-glucosamine component of bacterial peptidoglycan inhibits the hexokinase activity of HK1 and causes its dissociation from mitochondrial outer membrane, thereby activating the NLRP3 inflammasome.

NCBI AND UNIPROT INFORMATION

NCBI GI #	188497754
NCBI GeneID	3098
NCBI Accession #	NP_000179.2
NCBI GenBank Nucleotide #	NM_000188.2
UniProt Accession #	P19367; O43443; O43444; O75574; Q5VTC3; Q96HC8; Q9NNZ4; Q9NNZ5; E9PCK0
NCBI Official Full Name	hexokinase-1 isoform HKI
NCBI Official Synonym Full Names	hexokinase 1
NCBI Official Symbol	HK1
NCBI Official Synonym Symbols	HKI; HXK1; HK1-ta; HK1-tb; HK1-tc
NCBI Protein Information	hexokinase-1; HK I; glycolytic enzyme; hexokinase type I; brain form hexokinase
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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://stage.aaabiotech.com/polyclonal/hexokinase-1-antibody-peptide-elisa-immunocytochemistry-immunofluorescence-immunohistochemistry-elisa/329285>