GLCTK Antibody – Rabbit Polyclonal

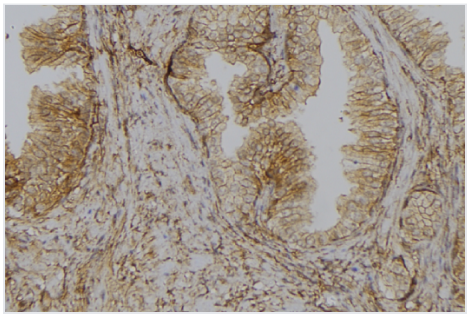
PRODUCT OVERVIEW

Product Name	GLCTK, Polyclonal Antibody
Full Product Name	GLCTK Antibody
Product Gene Name	anti-GLCTK antibody
Product Synonym Gene Name	GLYCTK
Product Synonym Names	CG9886 like; GLCTK_HUMAN; Glycerate kinase; Glyctk; GLYCTK1; HBeAg binding protein 2; HBeAg binding protein 4; HBeAg-binding protein 4; HBeAgBP4A; HBEBP2; HBEBP4
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Concentration	1mg/ml (lot specific)
Specificity	GLCTK antibody detects endogenous levels of total GLCTK
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.
Antibody/Peptide Pairs	GLCTK peptide (MBS9627690) is used for blocking the activity of GLCTK antibody (MBS9608978)
Molecular Weight	Observed: 55 kDa Predicted: 56 kDa
3D Structure	ModBase 3D Structure for Q8IVS8
Supply Chain Verification	Manufactured in a lab with traceable raw materials manufactured on site. Coordinated product portfolio of antibodies, pairs, conjugates, recombinant proteins, and immunoassay materials available, please inquire.
Immunogen	A synthesized peptide derived from human GLCTK
Subcellular Location	Cytoplasm and Cytoplasm. Mitochondrion.
Tissue Specificity	Widely expressed.
Predicted Cross Reactivity	**Pig, Bovine, Horse, Sheep**
Similarity	Pig (100%), Bovine (100%), Horse (91%), Sheep (100%)
Conjugation	Unconjugated
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-GLCTK antibody	Western Blot (WB), Immunohistochemisty (IHC), Immunofluorescence (IF), Immunocytochemistry (ICC), ELISA (EIA)
Application Notes for anti-GLCTK antibody	WB: 1:1000-3000 IHC: 1:200 IF/ICC: 1:100-1:500

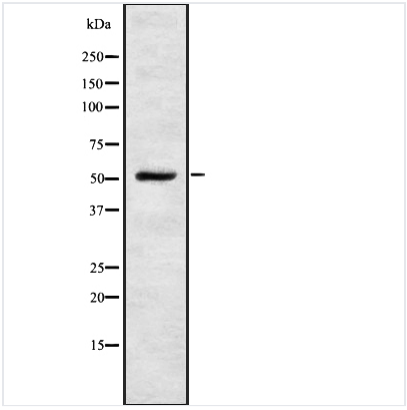
Related Product Information for anti-GLCTK antibody	Function: ATP + D-glycerate = ADP + 3-phospho-D-glycerate. Similarity: Belongs to the glycerate kinase type-2 family.
Other Notes	Small volumes of anti-GLCTK antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for GLCTK purchase	MBS9608978 is an antibody targeting GLCTK. Also known as GLCTK Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.



Immunofluorescence (IF) of anti-GLCTK antibody
MBS9608978 staining NIH-3T3 cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody, diluted at 1/600, was used as secondary antibody.



Immunohistochemistry (IHC) of anti-GLCTK antibody
MBS9608978 at 1/100 staining Mouse colon 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.



Western Blot (WB) of anti-GLCTK antibody
Western blot analysis GLCTK using HT29 whole cell lysates

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for GLCTK. It may not necessarily be applicable to this product.

NCBI GI #	222418771
NCBI GeneID	132158
NCBI Accession #	NP_001138423.1
UniProt Primary Accession #	Q8IVS8
UniProt Secondary Accession #	Q0P630; Q2EZ43; Q6Y2K6; Q7Z6G5; Q86YR8; Q8TED2; Q8WTY2
UniProt Related Accession #	Q8IVS8
GenBank Nucleotide #	NM_001144951.1
NCBI Official Full Name	glycerate kinase isoform 2
NCBI Official Synonym Full Names	glycerate kinase

NCBI Official Symbol	GLYCTK
NCBI Official Synonym Symbols	HBEBP2; HBEBP4; HBeAgBP4A
UniProt Protein Name	Glycerate kinase
UniProt Synonym Protein Names	HBeAg-binding protein 4
UniProt Gene Name	GLYCTK
UniProt Synonym Gene Names	HBEBP4
NCBI Protein Information	glycerate kinase
NCBI Summary for GLCTK	This locus encodes a member of the glycerate kinase type-2 family. The encoded enzyme catalyzes the phosphorylation of (R)-glycerate and may be involved in serine degradation and fructose metabolism. Decreased activity of the encoded enzyme may be associated with the disease D-glyceric aciduria. Alternatively spliced transcript variants have been described. [provided by RefSeq, Jan 2009]
Research Articles on GLCTK	**1.** Mutations in the GLYCTK gene is the cause of D-glycerate kinase deficiency and D-glyceric aciduria.
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