

For Research Use Only

Hexokinase 1 Polyclonal antibody

Catalog Number: 15656-1-AP **9 Publications**



Basic Information

Catalog Number: 15656-1-AP	GenBank Accession Number: BC008730	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 240 ug/ml by Nanodrop and 160 ug/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 3098	Recommended Dilutions: WB 1:500-1:2000 IHC 1:50-1:500
Source: Rabbit	UNIPROT ID: P19367	
Isotype: IgG	Full Name: hexokinase 1	
Immunogen Catalog Number: AG8008	Calculated MW: 102 kDa	
	Observed MW: 100 kDa	

Applications

Tested Applications: WB, IHC, ELISA	Positive Controls: WB : MCF-7 cells, U-87 MG cells
Cited Applications: WB, IHC	IHC : human stomach tissue,
Species Specificity: human	
Cited Species: human, mouse, rat	

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Background Information

The hexokinases (HKs) catalyze the first obligatory step in glucose metabolism to generate glucose-6-phosphate. This not only furthers glucose entry by maintaining the concentration gradient for facilitated glucose influx but also provides the first intermediate for essentially all major pathways using glucose. There are four conventional HK isoforms, HK1/2/3/4, encoded by four different genes. Most adult tissues express only HK1. Muscle and adipose tissue use HK2 for glycolysis, liver, and pancreatic beta cells express HK4 (also called glucokinase) and do not express HK1 or HK2. (PMID: 31434645, PMID: 31848318)

Notable Publications

Author	Pubmed ID	Journal	Application
Hong Jin	33253911	Cell Signal	WB
Yanqing Li	33204111	Onco Targets Ther	WB
Li Yang	31332157	Med Sci Monit	IHC

Storage

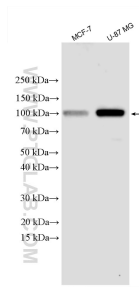
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

***** 20ul sizes contain 0.1%BSA**

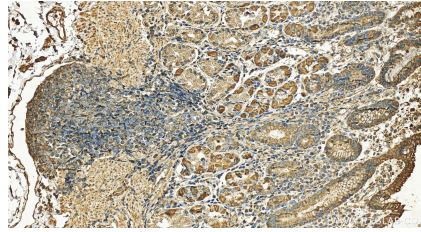
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
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Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 15656-1-AP (Hexokinase 1 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human stomach tissue slide using 15656-1-AP (Hexokinase 1 antibody) at dilution of 1:200 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).