For Research Use Only

HK3 Monoclonal antibody

Catalog Number:67803-1-Ig 1 Publications

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Basic Information

Catalog Number:
67803-1-Ig

Size:
150ul , Concentration: 1000 µg/ml by Nanodrop;

Source:
Mouse

Isotype:
IgG1

Immunogen Catalog Number:
AG30798

GenBank Accession Number:
BC028129

GeneID (NCBI):
3101

UNIPROT ID:
P52790

Full Name:
hexokinase 3 (white cell)

Calculated MW:
923 aa, 99 kDa

Observed MW:
99 kDa

Purification Method:
Protein A purification

CloneNo.:
3H3C7

Recommended Dilutions:
WB 1:5000-1:50000
IHC 1:500-1:2000
IF/ICC 1:500-1:2000

Applications

Tested Applications:
WB, IHC, IF/ICC, FC (Intra), ELISA

Cited Applications:
WB

Species Specificity:
human, mouse, rat, pig

Cited Species:
human, mouse

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

Positive Controls:

WB : Raji cells, Ramos cells, RAW 264.7 cells, human saliva, rat spleen tissue

IHC : human lung cancer tissue,

IF/ICC : HeLa cells,

Background Information

Hexokinases phosphorylate glucose to produce glucose-6-phosphate (G6P), the first step in most glucose metabolism pathways. Hexokinase 3 also known as HK3, similar to hexokinases 1 and 2, this allosteric enzyme is inhibited by its product glucose-6-phosphate.

Notable Publications

Author	Pubmed ID	Journal	Application
Mingyu Zhu	38484574	Biochem Biophys Res Commun	WB

Storage

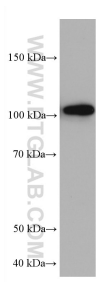
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

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

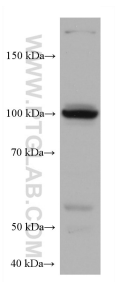
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

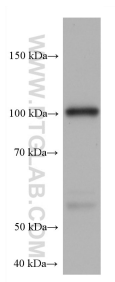
Selected Validation Data



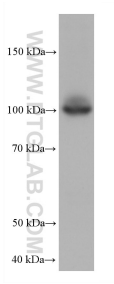
human saliva were subjected to SDS PAGE followed by western blot with 67803-1-Ig (HK3 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



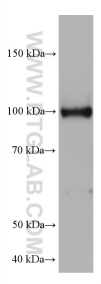
Raji cells were subjected to SDS PAGE followed by western blot with 67803-1-Ig (HK3 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



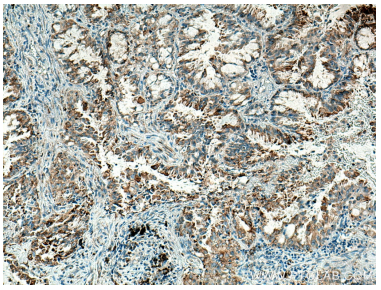
Ramos cells were subjected to SDS PAGE followed by western blot with 67803-1-Ig (HK3 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



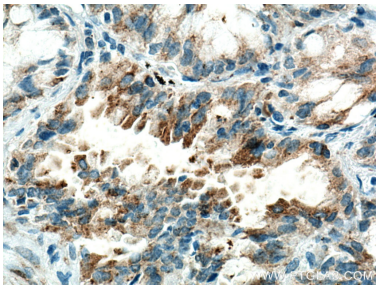
RAW 264.7 cells were subjected to SDS PAGE followed by western blot with 67803-1-Ig (HK3 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



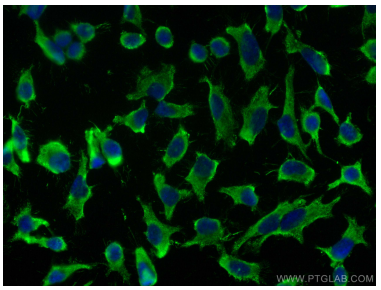
rat spleen tissue were subjected to SDS PAGE followed by western blot with 67803-1-Ig (HK3 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



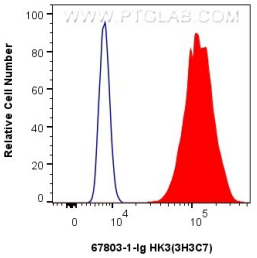
Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 67803-1-Ig (HK3 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 67803-1-Ig (HK3 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Methanol) fixed HeLa cells using HK3 antibody (67803-1-Ig, Clone: 3H3C7) at dilution of 1:1000 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



1x10^6 HeLa cells were intracellularly stained with 0.4 ug HK3 Monoclonal antibody (67803-1-Ig, Clone:3H3C7) and CoraLite488-conjugated Donkey Anti-Mouse IgG(H+L)(SA00013-5)(red), or 0.4 ug Mouse IgG1 Isotype Control (MOPC-21) (65124-1-Ig, Clone: MOPC-21) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).