

For Research Use Only

Cytoglobin Polyclonal antibody

Catalog Number: 13317-1-AP

Featured Product

9 Publications



Basic Information

Catalog Number: 13317-1-AP	GenBank Accession Number: BC029798	Purification Method: Antigen affinity purification
Size: 150ul, Concentration: 550 ug/ml by Nanodrop and 413 ug/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 114757	Recommended Dilutions: WB 1:500-1:3000 IHC 1:20-1:200
Source: Rabbit	UNIPROT ID: Q8WWM9	
Isotype: IgG	Full Name: cytoglobin	
Immunogen Catalog Number: AG4161	Calculated MW: 190 aa, 21 kDa	
	Observed MW: 21-29 kDa	

Applications

Tested Applications:
WB, IHC, ELISA

Cited Applications:
WB, IHC, IF

Species Specificity:
human, mouse, rat

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

Positive Controls:

WB : mouse heart tissue, human heart tissue, human uterus tissue, mouse brain tissue, mouse kidney tissue, mouse lung tissue, mouse small intestine tissue, mouse spleen tissue, mouse stomach tissue, PC-3 cells, rat kidney tissue, Transfected HEK-293 cells

IHC : human liver cancer tissue, human heart tissue, human liver tissue, human prostate cancer tissue, human stomach tissue

Background Information

Cytoglobin, also named as Histoglobin, HGb, STAP and CYGB, belongs to the globin family. Cytoglobin may have a protective function during conditions of oxidative stress. It may be involved in intracellular oxygen storage or transfer. It serves as a defensive mechanism against oxidative stress both in vitro and in vivo. (PMID:21224051) Cytoglobin is a ubiquitously expressed hexacoordinate hemoglobin that may facilitate diffusion of oxygen through tissues. The protein, with calculated MW of 21 kd, runs as a 29kd one in canine retina, kidney, liver, lung, and heart. It may be caused by posttranslational modification of the protein. Various immuno-staining patterns were reported including nuclear, cytoplasm and extracellular location.

Notable Publications

Author	Pubmed ID	Journal	Application
Qin Feng	30417486	J Cell Physiol	IHC
Brenda Lilly	29969687	Vascul Pharmacol	WB
Joey De Backer	35850009	Redox Biol	WB

Storage

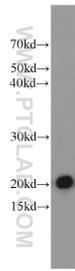
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

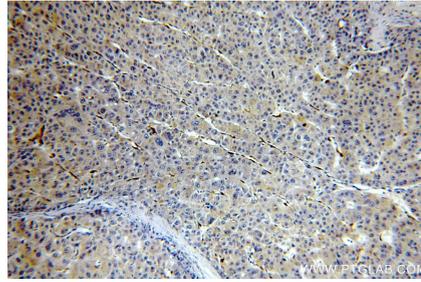
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

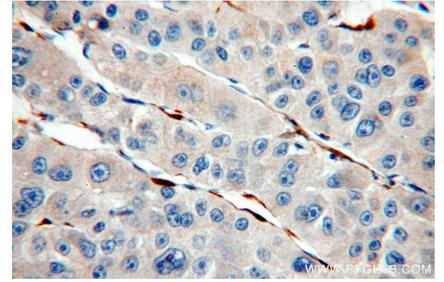
Selected Validation Data



mouse heart tissue were subjected to SDS PAGE followed by western blot with 13317-1-AP (Cytoglobin antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human liver cancer using 13317-1-AP (Cytoglobin antibody) at dilution of 1:100 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human liver cancer using 13317-1-AP (Cytoglobin antibody) at dilution of 1:100 (under 40x lens).