

Ferritin heavy chain Monoclonal antibody

Catalog Number: 60875-5-Ig

Basic Information

Catalog Number: 60875-5-Ig	GenBank Accession Number: BC000857	Purification Method: Protein A purification
Size: 150ul , Concentration: 1000 µg/ml by Nanodrop;	GeneID (NCBI): 2495	CloneNo.: 3G8D7
Source: Mouse	UNIPROT ID: P02794	Recommended Dilutions: WB 1:5000-1:50000
Isotype: IgG2a	Full Name: ferritin, heavy polypeptide 1	
Immunogen Catalog Number: AG21386	Calculated MW: 183 aa, 21 kDa	
	Observed MW: 21 kDa	

Applications

Tested Applications: WB, ELISA	Positive Controls: WB : A549 cells, rabbit brain tissue, HeLa cells, K-562 cells, rat brain tissue
Species Specificity: human, mouse, rat, rabbit	

Background Information

Ferritin heavy chain(FTH1, ferritin, heavy polypeptide 1), as a 21 kDa subunit of the ferritin complex, exhibits ferroxidase activity, which serves an essential role in catalyzing the conversion of the ferrous ions (Fe²⁺) to the ferric form (Fe³⁺). FTH1 regulates angiogenesis during inflammation and malignancy by binding to high molecular weight kininogen (HKA) and blocking its anti-angiogenic activity on endothelial cells in vitro and in vivo(PMID: 33260500). FTH1 has been shown to protect proximal tube epithelial cells and kidneys against the activity of free iron in reactive oxygen species generation. FTH1 plays an important role in the maintenance of the cellular iron balance in ferroptosis.

Storage

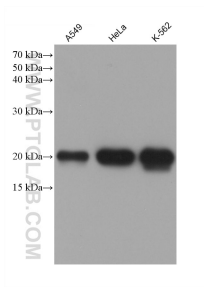
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
 Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

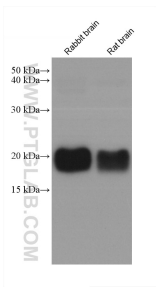
For technical support and original validation data for this product please contact:
 T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
 E: proteintech@ptglab.com
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Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 60875-5-Ig (Ferritin heavy chain antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



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