For Research Use Only

Ferritin heavy chain Recombinant antibody

Catalog Number:83428-1-RR

Featured Product

3 Publications



Basic Information	Catalog Number: 83428-1-RR	GenBank Accession Number: BC000857		Purification Method: Protein A purfication	
	Concentration: 1000 ug/ml	GeneID (NCBI): 2495		CloneNo.: 230312F3	
	Source: Rabbit	UNIPROT ID: P02794		Recommended Dilutions: WB 1:500-1:2000 IF/ICC 1:50-1:500	
	Isotype: IgG	Full Name: ferritin, heavy p	oolypeptide 1		
	Immunogen Catalog Number: AG2290	Calculated MW: 183 aa, 21 kDa	Calculated MW: 183 aa, 21 kDa		
		Observed MW: 21 kDa	Observed MW: 21 kDa		
Applications	Tested Applications:	Tested Applications: Positiv		ntrols:	
	Cited Applications:		WB : HeLa cells, human liver tissue, human placenta tissue		
	WB IF/ICC : H Species Specificity: human		IF/ICC : HeL	eLa cells,	
	Cited Species: human, rat				
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.				
Notable Publications	Author	Pubmed ID Jo	ournal	Application	
	Gizzy Keeler	39594692 C	ancers (Basel)	WB	
	Zhe Su	39437484 Ir	nt Immunopharmaco	ol WB	
	Pin Fang	39368783 E	ur J Pharm Sci	WB	
Storage	Storage: Store at -20°C. Stable for one ye Storage Buffer: PBS with 0.02% sodium azide a Aliquoting is unnecessary for -2	ear after shipment. Ind 50% glycerol, pH7. 20°C storage	3		

For technical support and original validation data for this product please contact:T: 4006900926E: Proteintech-CN@ptglab.comW: ptgcn.com

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

Selected Validation Data



WB result of Ferritin heavy chain antibody (83428-1-RR; 1:1000; incubated at room temperature for 1.5 hours) with sh-Control and sh-Ferritin heavy chain transfected HeLa cells.



Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using Ferritin heavy chain antibody (83428-1-RR, Clone: 230312F3) at dilution of 1:200 and Multi-rAb CoraLite ® Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002).



Various lysates were subjected to SDS PAGE followed by western blot with 83428-1-RR (Ferritin heavy chain antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Biolayer interferometry (BLI) kinetic assays of 83428-1-RR against Human FTH1 were performed. The affinity constant is below 1 pM.