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# Ferritin heavy chain Recombinant antibody



Catalog Number: 83428-1-RR

## Basic Information

<b>Catalog Number:</b> 83428-1-RR	<b>GenBank Accession Number:</b> BC000857	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 1000 µg/ml	<b>GeneID (NCBI):</b> 2495	<b>CloneNo.:</b> 230312F3
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P02794	<b>Recommended Dilutions:</b> WB 1:5000-1:50000
<b>Isotype:</b> IgG	<b>Full Name:</b> ferritin, heavy polypeptide 1	
<b>Immunogen Catalog Number:</b> AG2290	<b>Calculated MW:</b> 183 aa, 21 kDa	
	<b>Observed MW:</b> 21 kDa	

## Applications

<b>Tested Applications:</b> WB, ELISA	<b>Positive Controls:</b> WB : HeLa cells, human liver tissue, human placenta tissue
<b>Species Specificity:</b> Human	

## 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 (Fe<sup>2+</sup>) to the ferric form (Fe<sup>3+</sup>). 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 pH 7.3.  
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

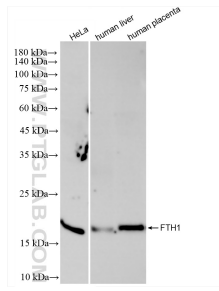
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

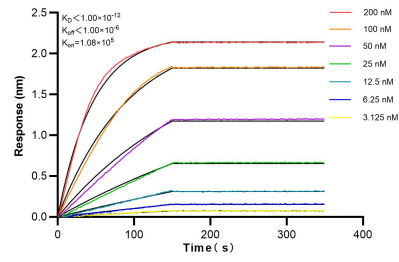
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## Selected Validation Data



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.