

bsm-54108R**[Primary Antibody]**

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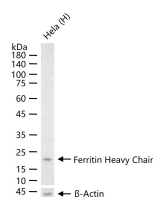
400-901-9800

Ferritin Heavy Chain Recombinant Rabbit mAb

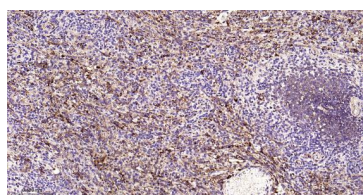
DATASHEET

Host: Rabbit	Isotype: IgG	Applications: WB (1:500-2000) IHC-P (1:100-500) IHC-F (1:100-500) IF (1:100-500) Reactivity: Human Predicted MW.: 20 kDa Subcellular Location: Cytoplasm ,Nucleus
Clonality: Recombinant	CloneNo.: 5B5	
GeneID: 2495	SWISS: P02794	
Target: Ferritin Heavy Chain		
Immunogen: A synthesized peptide derived from human Ferritin heavy chain: 150-183.		
Purification: affinity purified by Protein A		
Concentration: 1mg/ml		
Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.		
Background: Mammalian ferritins consist of 24 subunits made up of two types of poly-peptide chains, ferritin heavy chain and ferritin light chain, which each have unique functions. Ferritin heavy chains catalyze the first step in iron storage, the oxidation of FeII, whereas ferritin light chains promote the nucleation of ferrihydrite, enabling storage of FeIII. The most prominent role of mammalian ferritins is to provide iron-buffering capacity to cells. In addition to iron buffering, heavy chain ferritin is also involved in the regulation of thymidine biosynthesis via increased expression of cytoplasmic serine hydroxymethyltransferase, which is a limiting factor in thymidylate synthesis in MCF-7 cells. Light chain ferritin is involved in cataracts by at least two mechanisms: hereditary hyperferritinemia cataract syndrome, in which light chain ferritin is overexpressed; and oxidative stress, an important factor in the development of aging-related cataracts.		

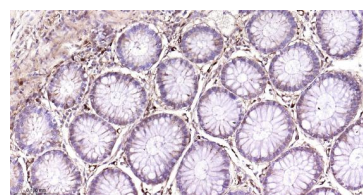
VALIDATION IMAGES



25 ug total protein per lane of various lysates (see on figure) probed with Ferritin Heavy Chain monoclonal antibody, unconjugated (bsm-54108R) at 1:1000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min.



Paraformaldehyde-fixed, paraffin embedded Human Spleen; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation Ferritin Heavy Chain Monoclonal Antibody, Unconjugated (bsm-54108R) at 1:200 overnight at 4°C, followed by conjugation to the bs-0295G-HRP and DAB (C-0010) staining.



Paraformaldehyde-fixed, paraffin embedded Human Colon; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation Ferritin Heavy Chain Monoclonal Antibody, Unconjugated (bsm-54108R) at 1:200 overnight at 4°C, followed by conjugation to the bs-0295G-HRP and DAB (C-0010) staining.

SELECTED CITATIONS

- **[IF=7.9]** Yu-Sheng Shi. et al. Dendrobine rescues cognitive dysfunction in diabetic encephalopathy by inhibiting ferroptosis via activating Nrf2/GPX4 axis. PHYTOMEDICINE. 2023 Jul;154993 WB ;Mouse. 37567006
- **[IF=4.8]** Haoqiang Chen. et al. IFIT2 mediates iron retention and cholesterol efflux in atherosclerosis. INT IMMUNOPHARMACOL. 2024 Dec;142:113131 WB,IF ;Mouse. 39276454
- **[IF=3.7]** Wu Chunxiao. et al. Investigation of Ferroptosis Mechanisms in Ischemic Stroke Treated with

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Electroacupuncture: Focusing on the NCOA4-FTH1 Signaling Pathway. NEUROCHEM RES. 2025 Apr;50(2):1-15 WB
;Mouse. 40189641

- **[IF=1.5]** Zhiyu Zhao. et al.mirNA-541-5p regulates myocardial ischemia–reperfusion injury by targeting ferroptosis.JOURNAL OF CARDIOTHORACIC SURGERY.2025 Jan 15;20(1):63. Western blot ;. 39815273