

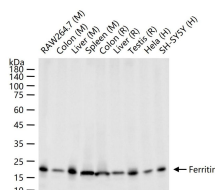
bsm-63085R**[Primary Antibody]****Bioss**
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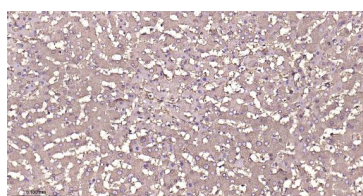
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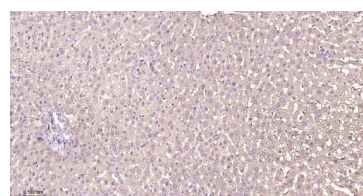
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Ferritin Recombinant Rabbit mAb**DATASHEET****Host:** Rabbit**Isotype:** IgG**Clonality:** Recombinant**CloneNo.:** 11C10**GeneID:** 2495**SWISS:** P02794**Target:** Ferritin**Immunogen:** A synthesized peptide derived from human Ferritin: 65-100.**Purification:** affinity purified by Protein A**Concentration:** 1mg/ml**Storage:** 10mM phosphate buffered saline , pH 7.4, 150mM sodium chloride, 0.05% 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.**Applications:** WB (1:500-2000)**IHC-P** (1:100-500)**IHC-F** (1:100-500)**IF** (1:100-500)**Reactivity:** Human, Mouse, Rat**Predicted MW.:** 20 kDa**Observed MW.:** 20 kDa**Subcellular Location:** Cytoplasm ,Nucleus**VALIDATION IMAGES**

25 ug total protein per lane of various lysates (see on figure) probed with Ferritin monoclonal antibody, unconjugated (bsm-63085R) 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 Liver; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with Ferritin Recombinant Monoclonal Antibody, Unconjugated(bsm-63085R) at 1:200 overnight at 4°C, followed by conjugation to the bs-0295G-HRP and DAB (C-0010) staining.



Paraformaldehyde-fixed, paraffin embedded Rat Liver; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with Ferritin Recombinant Monoclonal Antibody, Unconjugated(bsm-63085R) at 1:200 overnight at 4°C, followed by conjugation to the bs-0295G-HRP and DAB (C-0010) staining.

SELECTED CITATIONS

- **[IF=4.2]** Linna Yu. et al. NLRP3 Mediates NOXs-Induced Iron Overload and Inflammation but Not Oxidative Damage in Colons of DSS-Treated Mice. J INFLAMM RES. 2025 Apr WB ;Mouse. 40201574
- **[IF=2.5]** Caixia Deng. et al. Molecular typing of sepsis-induced acute lung injury and its relationship with the immune microenvironment. J RADIAT RES APPL SC. 2026 Jun;19(2):102293 WB ;Rat. 10.1016/j.jrras.2026.102293

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