



Catalog: OM638937

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Ferritin

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☐ 100 µl

Product profile

Product name	Ferritin
Antibody Type	Primary Antibodies
Product description	Mammalian ferritins consist of 24 subunits made up of two types of polypeptide 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 Fe (II), whereas ferritin light chains promote the nucleation of ferrihydrite, enabling storage of Fe (III). 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 ageing-related cataracts. The gene encoding human ferritin heavy chain maps to chromosome 11q13 and the human ferritin light chain gene maps to chromosome 19q13.3-q13.4.
Immunogen	Recombinant protein

Key Feature

Clonality	Polyclonal
Isotype	IgG
Host Species	Rabbit
Tested Applications	WB ,ICC ,IHC ,FC
Species Reactivity	Human Mouse Rat
Concentration	1 mg/mL

Target Information

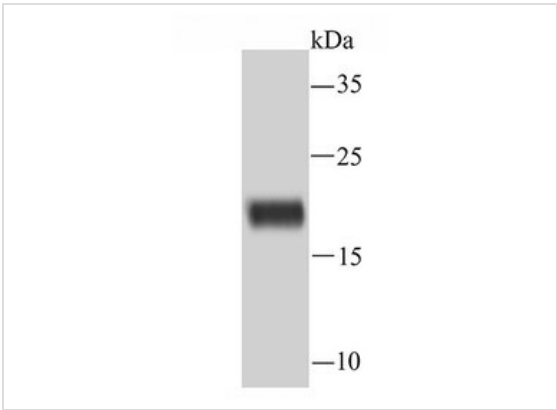
Alternative Names	Cell proliferation-inducing gene 15 protein antibody Ferritin H subunit antibody Ferritin heavy chain antibody Ferritin heavy polypeptide 1 antibody Ferritin L subunit antibody Ferritin light polypeptide antibody Ferritin, heavy polypeptide antibody FRIH_HUMAN antibody FTH antibody FTH1 antibody FTL antibody
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Molecular Weight(MW)	21 kDa
Cellular Localization	Cytoplasm.

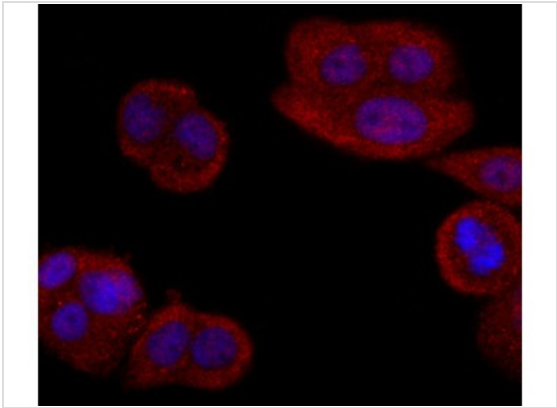
Database Links

SwissProt ID	P02792
	P02794
	P02793
	P19132

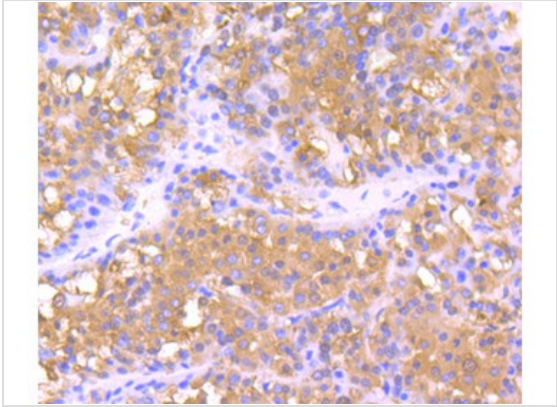
Application



Application
 Fig1: Western blot analysis of Ferritin on rat spleen tissue lysate using anti-Ferritin antibody at 1/1,000 dilution.

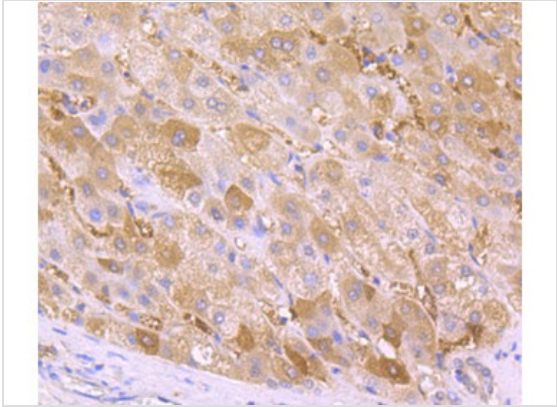
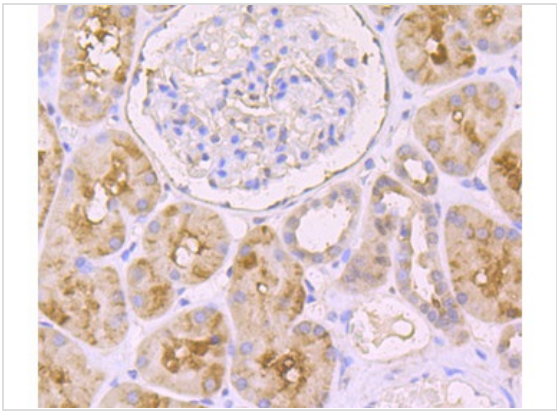


Application
 Fig2: ICC staining Ferritin in MCF-7 cells (red). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.

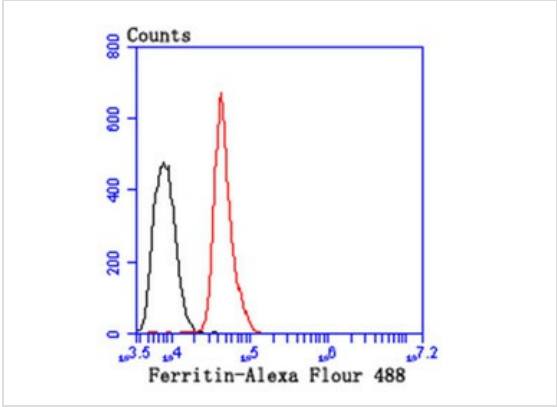


Application
 Fig3: Immunohistochemical analysis of paraffin-embedded human liver cancer tissue using anti-Ferritin antibody. Counter stained with hematoxylin.

Application
 Fig4: Immunohistochemical analysis of paraffin-embedded human kidney tissue using anti-Ferritin antibody. Counter stained with hematoxylin.



Application
 Fig5: Immunohistochemical analysis of paraffin-embedded human liver tissue using anti-Ferritin antibody. Counter stained with hematoxylin.



Application
 Fig6: Flow cytometric analysis of HepG2 cells with Ferritin antibody at 1/100 dilution (red) compared with an unlabelled control (cells without incubation with primary antibody; black).

Positive Control	Rat spleen tissue lysate, human liver tissue, human liver cancer tissue, human kidney tissue, MCF-7, HepG 2.
Application Notes	WB: 1:500~1:2000 ICC: 1:200~1:500 IHC: 1:50~1:200 FC: 1:200~1:500 Notes: Optimal dilutions/concentrations should be determined by the researcher.

Additional Information

Form	Liquid
Storage Instructions	Store at +4°C after thawing. Aliquot store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Storage Buffer	1*TBS (pH7.4), 0.5%BSA, 50%Glycerol. Preservative: 0.05% Sodium Azide.
Note	The product is for research use only,not for use in diagnostic or therapeutic procedures.

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This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt
