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KD-Validated Anti-Ferritin heavy chain 1 Rabbit Monoclonal Antibody

Rabbit monoclonal antibody
Catalog # AGI1742

Specification

KD-Validated Anti-Ferritin heavy chain 1 Rabbit Monoclonal Antibody - Product Information

Application	**WB, ICC**
Primary Accession	P02794
Clonality	**Monoclonal**
Isotype	**Rabbit IgG**
Gene Name	**FTH1**
Aliases	**FTH1; Ferritin Heavy Chain 1; FTH; PIG15; FTHL6; PLIF; FHC; Cell Proliferation-Inducing Gene 15 Protein; Proliferation-Inducing Protein 15; Placenta Immunoregulatory Factor; Ferritin, Heavy; Polypeptide 1; Ferritin Heavy Chain; Ferritin H Subunit; Apoferritin; EC 1.16.3.1; H-Ferritin; HFE5**

KD-Validated Anti-Ferritin heavy chain 1 Rabbit Monoclonal Antibody - Additional Information

Gene ID **2495**

Other Names
Ferritin heavy chain, Ferritin H subunit, 1.16.3.1, Cell proliferation-inducing gene 15 protein, Ferritin heavy chain, N-terminally processed, FTH1, FTH, FTHL6

KD-Validated Anti-Ferritin heavy chain 1 Rabbit Monoclonal Antibody - Protein Information

Name FTH1

Synonyms FTH, FTHL6

Function
Stores iron in a soluble, non-toxic, readily available form. Important for iron homeostasis. Has ferroxidase activity (PubMed:9003196). Iron is taken up in the ferrous form and deposited as ferric hydroxides after oxidation (PubMed:9003196). Also plays a role in delivery of iron to cells (By similarity). Mediates iron uptake in capsule cells of the developing kidney (By similarity). Delivery to lysosomes is mediated by the cargo receptor NCOA4 for autophagic degradation and release of iron (PubMed:24695223, PubMed:26436293).

Cellular Location
Cytoplasm. Lysosome. Cytoplasmic vesicle, autophagosome

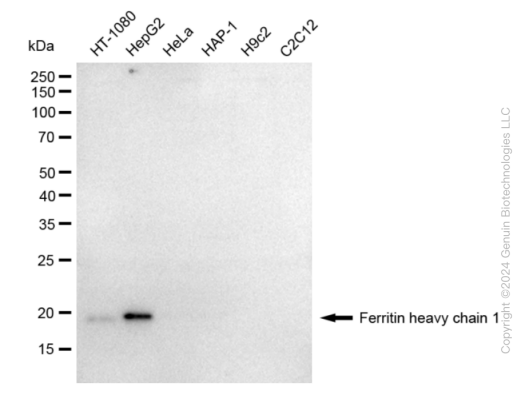
Tissue Location
Expressed in the liver.

KD-Validated Anti-Ferritin heavy chain 1 Rabbit Monoclonal Antibody - Protocols

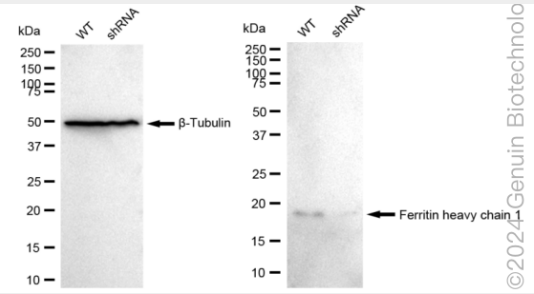
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

KD-Validated Anti-Ferritin heavy chain 1 Rabbit Monoclonal Antibody - Images



Western blotting analysis using anti-Ferritin heavy chain 1 antibody (Cat#AGI1742). Total cell lysates (45 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-Ferritin heavy chain 1 antibody (Cat#AGI1742, 1:2,500) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Western blotting analysis using anti-Ferritin heavy chain 1 antibody (Cat#AGI1742). Ferritin heavy chain 1 expression in wild type (WT) and Ferritin heavy chain 1 shRNA knockdown (KD) HeLa cells with 50 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with anti-Ferritin heavy chain 1 antibody (Cat#AGI1742, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.

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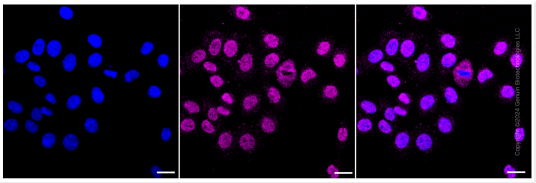

Immunocytochemical staining of HepG2 cells with Ferritin heavy chain 1 antibody (Cat#AGI1742, 1:1,000). Nuclei were stained blue with DAPI; Ferritin heavy chain 1 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Low. Scale bar: 20 µm.