

**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	<a href="#">P02794</a>
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
<b>Other Names</b>	
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](http://www.uniprot.org/citations/9003196)). Iron is taken up in the ferrous form and deposited as ferric hydroxides after oxidation (PubMed:[9003196](http://www.uniprot.org/citations/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](http://www.uniprot.org/citations/24695223), PubMed:[26436293](http://www.uniprot.org/citations/26436293)).

### Cellular Location

Cytoplasm. Lysosome. Cytoplasmic vesicle, autophagosome

### Tissue Location

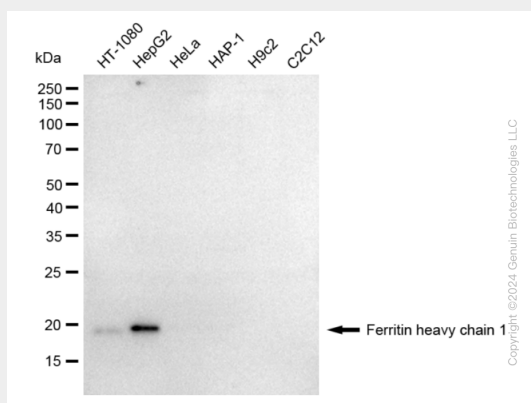
Expressed in the liver.

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

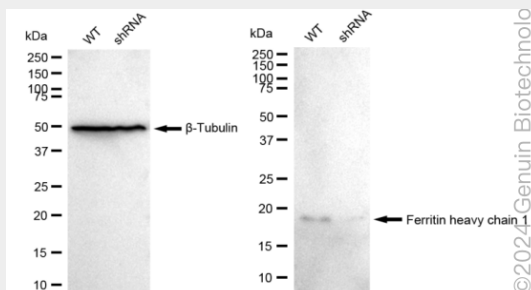
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

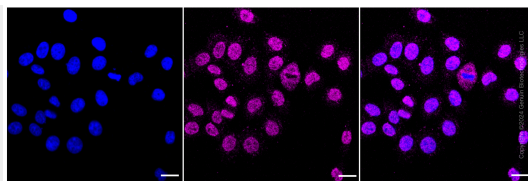
## KD-Validated Anti-Ferritin heavy chain 1 Rabbit Monoclonal Antibody - Images



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.



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  $\mu$ m.