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# Anti-FTH1 Antibody

Catalog # AP60462

## Product Information

| | |
|---|---|
| **Application** | WB, IF/IC |
| **Primary Accession** | P02794 |
| **Reactivity** | Human, Mouse, Rat, Rabbit, Dog, Mk |
| **Host** | Rabbit |
| **Clonality** | Polyclonal |
| **Calculated MW** | 21226 |

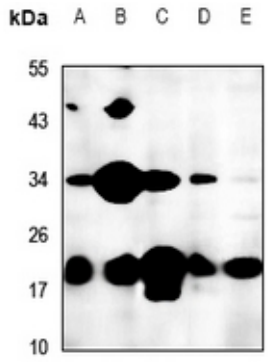
## Additional Information

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|---|---|
| **Gene ID** | 2495 |
| **Other Names** | FTH; FTHL6; Ferritin heavy chain; Ferritin H subunit; Cell proliferation-inducing gene 15 protein |
| **Target/Specificity** | KLH-conjugated synthetic peptide encompassing a sequence within the center region of human FTH1. The exact sequence is proprietary. |
| **Dilution** | WB~~WB (1/500 - 1/1000) IF/IC~~N/A |
| **Format** | Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide. |
| **Storage** | Store at -20 °C.Stable for 12 months from date of receipt |

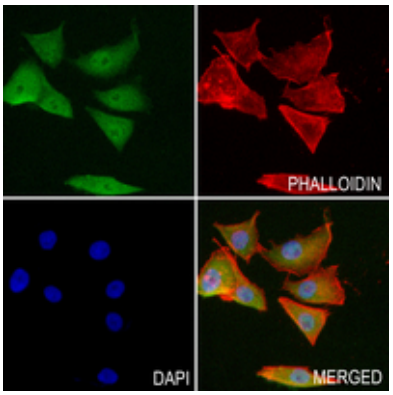
## Protein Information

| | |
|---|---|
| **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. |

## Images




Western blot analysis of FTH1 expression in LO2 (A), C6 (B), MEF (C), U87MG (D), HepG2 (E) whole cell lysates. (Predicted band size: 21 kD; Observed band size: 21 kD)




Immunofluorescent analysis of FTH1 staining in MG63 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a hidified chamber. Cells were washed with PBST and incubated with a AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark. Phalloidin - AF594 was used to stain Actin filaments (red). DAPI was used to stain the cell nuclei (blue).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.