

# Ferritin Heavy Chain Rabbit mAb

Catalog # AP74984

## Product Information

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<b>Application</b>	WB, FC
<b>Primary Accession</b>	<a href="#">P02794</a>
<b>Reactivity</b>	Rat, Human, Mouse
<b>Host</b>	Rabbit
<b>Clonality</b>	Monoclonal Antibody
<b>Isotype</b>	IgG
<b>Conjugate</b>	Unconjugated
<b>Purification</b>	Affinity Purified
<b>Calculated MW</b>	21226

## Additional Information

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<b>Gene ID</b>	2495
<b>Other Names</b>	FTH1
<b>Dilution</b>	WB~~1:500-1:2000 FC~~1:20-1:50
<b>Format</b>	1xPBS(pH 7.4), 150mM NaCl, 50% Glycerol, 0.02% Sodium azide and 0.05% BSA
<b>Storage</b>	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

## Protein Information

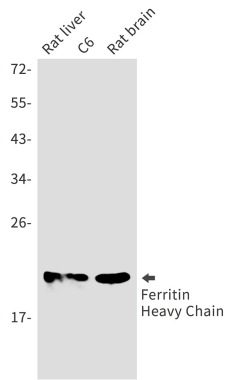
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<b>Name</b>	FTH1
<b>Synonyms</b>	FTH, FTHL6
<b>Function</b>	Stores iron in a soluble, non-toxic, readily available form. Important for iron homeostasis. Has ferroxidase activity (PubMed: <a href="#">9003196</a> ). Iron is taken up in the ferrous form and deposited as ferric hydroxides after oxidation (PubMed: <a href="#">9003196</a> ). 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: <a href="#">24695223</a> , PubMed: <a href="#">26436293</a> ).
<b>Cellular Location</b>	Cytoplasm. Lysosome. Cytoplasmic vesicle, autophagosome
<b>Tissue Location</b>	Expressed in the liver.

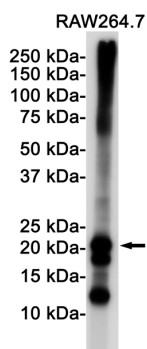
## Background

The assembled ferritin molecule, often referred to as a nanocage, can store up to 4,500 atoms of iron. It forms a holoenzyme of ~450 kDa, consisting of 24 subunits made up of two types of polypeptide chains: ferritin heavy chain and ferritin light chain, each having 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).

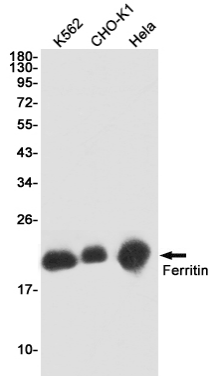
## Images



Western blot analysis of Ferritin Heavy Chain in rat liver, C6, rat brain lysates using Ferritin Heavy Chain antibody.

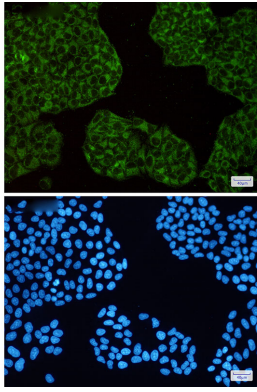


Western blot analysis of Ferritin in Raw264.7 lysates using Ferritin antibody.



Western blot analysis of Ferritin in K562, CHO-K1, HeLa lysates using Ferritin antibody

Immunocytochemistry analysis of Ferritin(green) in HeLa using Ferritin antibody, and DAPI(blue).



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