



# Ferritin heavy chain Monoclonal Antibody

Catalog No	YP-mAb-03870
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB
Gene Name	FTH1
Protein Name	Ferritin heavy chain
Immunogen	Synthesized peptide derived from the Internal region of human Ferritin heavy chain. AA range 120-170
Specificity	Ferritin heavy chain Monoclonal Antibody detects endogenous levels of Ferritin heavy chain protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-1:2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	FTH1; FTH; FTHL6; OK/SW-cl.84; PIG15; Ferritin heavy chain; Ferritin H subunit; Cell proliferation-inducing gene 15 protein
Observed Band	21kD
Cell Pathway	cell,nucleus,cytoplasm,mitochondrion,cytosol,intracellular ferritin complex,integral component of membrane,autolysosome,extracellular exosome,
Tissue Specificity	Expressed in the liver.
Function	catalytic activity:4 Fe(2+) + 4 H(+) + O(2) = 4 Fe(3+) + 2 H(2)O.,function:Stores iron in a soluble, non-toxic, readily available form. Important for iron homeostasis.,function:Stores iron in a soluble, non-toxic, readily available form. Important for iron homeostasis. Has ferroxidase activity. Iron is taken up in the ferrous form and deposited as ferric hydroxides after oxidation. Also plays a role in delivery of iron to cells. Mediates iron uptake in capsule cells of the developing kidney.,miscellaneous:In human liver the heavy chain is the major chain.,online information:Ferritin entry,similarity:Belongs to the ferritin family.,similarity:Contains 1 ferritin-like diiron domain.,subunit:Oligomer of 24 subunits. There are two types of subunits: L (light) chain and H (heavy) chain. The major chain can be light or heavy, depending on the species and tissue type. The functional molecule fo



## Background

This gene encodes the heavy subunit of ferritin, the major intracellular iron storage protein in prokaryotes and eukaryotes. It is composed of 24 subunits of the heavy and light ferritin chains. Variation in ferritin subunit composition may affect the rates of iron uptake and release in different tissues. A major function of ferritin is the storage of iron in a soluble and nontoxic state. Defects in ferritin proteins are associated with several neurodegenerative diseases. This gene has multiple pseudogenes. Several alternatively spliced transcript variants have been observed, but their biological validity has not been determined. [provided by RefSeq, Jul 2008],

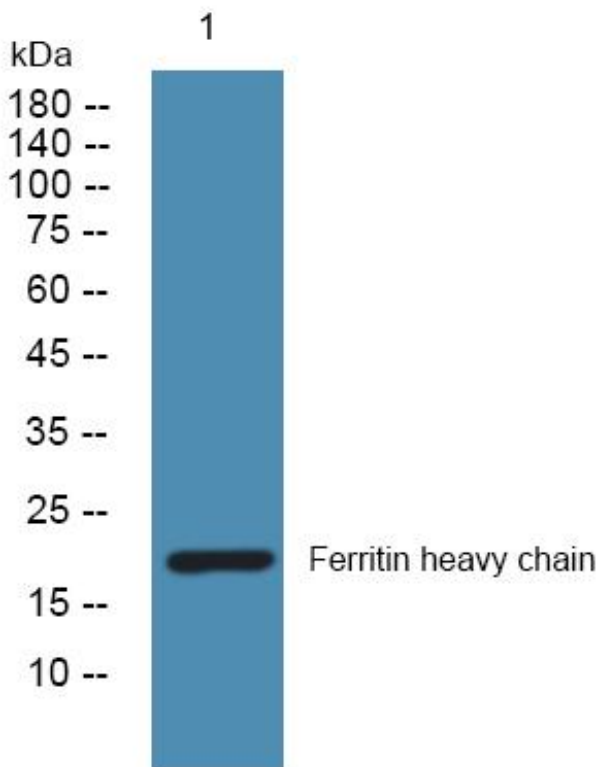
## matters needing attention

Avoid repeated freezing and thawing!

## Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

## Products Images



Western Blot analysis of various cells using Ferritin heavy chain Monoclonal Antibody