

FTH1

Reactivity: Human Mouse Rat

Tested applications: WB IHC IF

Recommended Dilution: WB 1:500 - 1:2000 IHC 1:50 - 1:200 IF 1:50 - 1:200

Calculated MW: 21kDa

Observed MW: Refer to Figures

Immunogen:

Recombinant protein of human FTH1

Storage Buffer:

Store at -20. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

Synonym:

FTH1;FHC;FTH;FTHL6;MGC104426;PIG15;PLIF ;

Catalog #: A1144

Antibody Type:

Polyclonal Antibody

Species: Rabbit

Gene ID: 2495

Isotype: IgG

Swiss Prot: P02794

Purity: Affinity purification

For research use only.

Background:

Ferritin (FTH) is a ubiquitous and highly conserved protein which plays a major role in iron homeostasis by sequestering and storing iron in a non-toxic and bioavailable form (1). The assembled ferritin molecule, often referred to as a nanocage, can store up to 4,500 atoms of iron (2,3). 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) (4). In addition to iron buffering, heavy chain ferritin also enhances thymidine biosynthesis (5). Serum ferritin levels serve as an indicator of the amount of iron stored in the body. Serum ferritin is the most sensitive test for anaemia. The level of serum ferritin is markedly elevated in inflammation, malignancy, and iron overload disorders (6). Research studies have found that defects in ferritin proteins are also associated with several neurodegenerative diseases (7).

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