

## **FTH1 Polyclonal Antibody**

Catalog Number: E91144

Amount: 100ul

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).

Species: Rabbit Isotype: IgG

Storage/Stability: Store at -20oC or -80oC. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide,

50% glycerol, pH7.3.

**Synonyms:** FTH1;FHC;FTH;FTHL6;MGC104426;PIG15;PLIF;

Immunogen: Recombinant proteinof human FTH1

**Purification:** Affinity purification

Reactivity: H M R
Applications: WB IHC
Molecular Weight: 21kDa
Swiss-Prot No.: P02794
Gene ID: 2495

References: 1. Munro, H.N. et al. (1988) Ann N Y Acad Sci 526, 113-23. 2. Theil, E.C. (2004) Annu Rev

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