

# Recombinant Human FTH1, GST-tagged

**Cat. No.** FTH1-13024H    **Lot. No.** (See product label)

## SPECIFICATION

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| <b>Product Overview</b> | Recombinant Human FTH1 protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>ProteinLength</b>    | 1-183a.a.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Description</b>      | 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. |
| <b>Storage</b>          | The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Storage Buffer</b>   | 1M PBS (58mM Na <sub>2</sub> HPO <sub>4</sub> , 17mM NaH <sub>2</sub> PO <sub>4</sub> , 68mM NaCl, pH8. ) added with 100mM GSH and 1% Triton X-100, 15% glycerol.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

## GENE INFORMATION

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| <b>Gene Name</b>           | <a href="#">FTH1 ferritin, heavy polypeptide 1 [ Homo sapiens ]</a>                                                                                                                                                                                                                                                                                                                                      |
| <b>Official Symbol</b>     | FTH1                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Synonyms</b>            | FTH1; ferritin, heavy polypeptide 1; FTHL6; ferritin heavy chain; apoferritin; FHC; FTH; PIG15; placenta immunoregulatory factor; PLIF; proliferation inducing protein 15; ferritin H subunit; proliferation-inducing protein 15; cell proliferation-inducing gene 15 protein; MGC104426;                                                                                                                |
| <b>Gene ID</b>             | <a href="#">2495</a>                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>mRNA Refseq</b>         | <a href="#">NM_002032</a>                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Protein Refseq</b>      | <a href="#">NP_002023</a>                                                                                                                                                                                                                                                                                                                                                                                |
| <b>UniProt ID</b>          | <a href="#">P02794</a>                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Chromosome Location</b> | 11q13                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Pathway</b>             | Clathrin derived vesicle budding, organism-specific biosystem; Golgi Associated Vesicle Biogenesis, organism-specific biosystem; Iron uptake and transport, organism-specific biosystem; Membrane Trafficking, organism-specific biosystem; Mineral absorption, organism-specific biosystem; Mineral absorption, conserved biosystem; Porphyrin and chlorophyll metabolism, organism-specific biosystem; |
| <b>Function</b>            | ferric iron binding; ferroxidase activity; iron ion binding; oxidoreductase activity; protein binding;                                                                                                                                                                                                                                                                                                   |