

## Recombinant Human FTH1 Protein (Met1-Ser183), N-His tagged

**Cat. No.** FTH1-3038H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant human FTH1 (Met1-Ser183) protein fused with the N-terminal His tag was expressed in E. coli.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>ProteinLength</b>    | Met1-Ser183                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <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>Molecular Mass</b>   | 20.13 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Purity</b>           | >90 % as determined by SDS-PAGE.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Notes</b>            | For research use only.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

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|                       |                                                                                                                                                                                         |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Storage</b>        | Use a manual defrost freezer and avoid repeated freeze thaw cycles. Store at 2 to 8 centigrade for one week. Store at -20 to -80 centigrade for twelve months from the date of receipt. |
| <b>Storage Buffer</b> | Supplied as solution form in PBS or lyophilized from PBS.                                                                                                                               |
| <b>Reconstitution</b> | Reconstitute in sterile water for a stock solution.                                                                                                                                     |
| <b>Shipping</b>       | In general, proteins are provided as lyophilized powder/frozen liquid. They are shipped out with dry ice/blue ice unless customers require otherwise.                                   |

## GENE INFORMATION

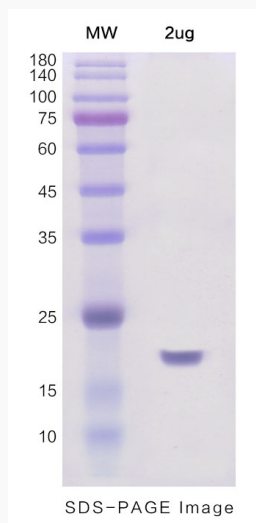
|                        |                                                                                                                                                                                                                                                                                           |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | <b>FTH1</b> ferritin, heavy polypeptide 1 [ Homo sapiens (human) ]                                                                                                                                                                                                                        |
| <b>Official Symbol</b> | <b>FTH1</b>                                                                                                                                                                                                                                                                               |
| <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>         | <b>2495</b>                                                                                                                                                                                                                                                                               |
| <b>mRNA Refseq</b>     | <b>NM_002032</b>                                                                                                                                                                                                                                                                          |
| <b>Protein Refseq</b>  | <b>NP_002023</b>                                                                                                                                                                                                                                                                          |
| <b>MIM</b>             | <b>134770</b>                                                                                                                                                                                                                                                                             |
| <b>UniProt ID</b>      | <b>P02794</b>                                                                                                                                                                                                                                                                             |

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## SDS-PAGE



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