FTH1 Blocking Peptide

PRODUCT OVERVIEW

Product Name	FTH1, Blocking Peptide
Full Product Name	FTH1 Peptide
Product Gene Name	FTH1 blocking peptide
Product Synonym Gene Name	FTH; FTHL6; MGC104426; PIG15; PLIF; FHC
Form/Format	Lyophilized powder
Preparation and Storage	Add 100ul of sterile PBS. Final peptide concentration is 1 mg/ml in PBS. For longer periods of storage, store at -20 degree C. Avoid repeat freeze-thaw cycles.
Antibody/Peptide Pairs	FTH1 peptide (MBS3236717) is used for blocking the activity of FTH1 antibody (MBS3211769)
Molecular Weight	21kDa
OMIM	134770
Product Categories/Family for FTH1 blocking peptide	Peptide
Applications Tested/Suitable for FTH1 blocking peptide	Immunohistochemistry (IHC), Western Blot (WB)
Related Product Information for FTH1 blocking peptide	This is a synthetic peptide designed for use in combination with anti-FTH1 antibody made Target Description: FTH1 is 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 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. Publication Note: This RefSeq record includes a subset of the publications that are available for this gene. Please see the Entrez Gene record to access additional publications.
Other Notes	Small volumes of FTH1 blocking peptide vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for FTH1 purchase	MBS3236717 is a blocking peptide targeting FTH1. Also known as FTH1 Peptide.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for FTH1. It may not necessarily be applicable to this product.

NCBI GI #	56682959
NCBI GeneID	2495
NCBI Accession #	NP_002023
UniProt Primary Accession #	P02794
UniProt Related Accession #	P02794

GenBank Nucleotide #	NM_002032
NCBI Official Full Name	ferritin heavy chain
NCBI Official Synonym Full Names	ferritin heavy chain 1
NCBI Official Symbol	FTH1
NCBI Official Synonym Symbols	FHC; FTH; HFE5; PLIF; FTHL6; PIG15
UniProt Protein Name	Ferritin heavy chain
UniProt Synonym Protein Names	Cell proliferation-inducing gene 15 protein
Protein Family	Iron transporter
UniProt Gene Name	FTH1
UniProt Synonym Gene Names	FTH; FTHL6; Ferritin H subunit
UniProt Entry Name	FRIH_HUMAN
NCBI Protein Information	ferritin heavy chain
NCBI Summary for FTH1	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]
UniProt Comments for FTH1	Ferritin-H: 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. 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 forms a roughly spherical shell with a diameter of 12 nm and contains a central cavity into which the insoluble mineral iron core is deposited. Belongs to the ferritin family. Protein type: Oxidoreductase; EC 1.16.3.1; Cofactor and Vitamin Metabolism - porphyrin and chlorophyll Chromosomal Location of Human Ortholog: 11q13 Cellular Component: ferritin complex; mitochondrion; cytosol; nucleus Molecular Function: ferroxidase activity; protein binding; ferric iron binding; iron ion binding Biological Process: receptor-mediated endocytosis; negative regulation of cell proliferation; cellular iron ion homeostasis; negative regulation of fibroblast proliferation; immune response; post-Golgi vesicle-mediated transport; iron ion transport; transmembrane transport; intracellular sequestering of iron ion Disease: Hemochromatosis, Type 5
Research Articles on FTH1	**1.** this study shows that H-ferritin is increased in the bone marrow of patients affected by macrophage activation syndrome
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