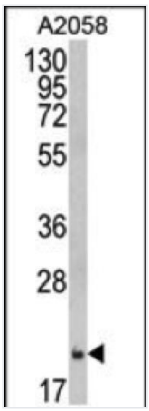
FTH1 Antibody – Rabbit Polyclonal

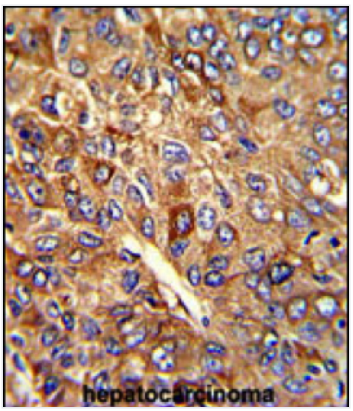
PRODUCT OVERVIEW

Product Name	FTH1, Polyclonal Antibody
Full Product Name	FTH1, CT (Ferritin Heavy Chain, Ferritin H Subunit, Cell Proliferation-inducing Gene 15 Protein, PIG15, OK/SW-cl.84, FTHL6, FTH) (Azide free) (HRP)
Product Gene Name	anti-FTH1 antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Horseradish Peroxidase (HRP).
Purity/Purification	Purified by Immunoaffinity chromatography.
Specificity	Recognizes human FTH1.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Note: Sodium azide is a potent inhibitor of peroxidase and should not be added to HRP conjugates. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	21,226 Da
Chromosome Location	Chromosome: 11; NC_000011.9 (61731757..61735132, complement). Location: 11q13
OMIM	134770
3D Structure	ModBase 3D Structure for P02794
Immunogen	KLH-conjugated synthetic peptide mapping to a fragment of residues within amino acids aa154-183 in the C-terminal region of human FTH1, UniProt Accession #NP_002023.2, P02794
Conjugate	HRP
Note	Preservative Free
Product Categories/Family for anti-FTH1 antibody	Antibodies; Serum Proteins
Applications Tested/Suitable for anti-FTH1 antibody	Immunohistochemistry (IHC), ELISA (EIA), Western Blot (WB)
Application Notes for anti-FTH1 antibody	IHC: 1:50-1:100 ELISA: 1:1,000 WB: 1:100-1:500 Applications are based on unconjugated antibody.
Related Product Information for anti-FTH1 antibody	MBS6475868 is an antibody targeting FTH1. Also known as FTH1, CT (Ferritin Heavy Chain, Ferritin H Subunit, Cell Proliferation-inducing Gene 15 Protein, PIG15, OK/SW-cl.84, FTHL6, FTH) (Azide free) (HRP). Reactive in Human. Host: Rabbit.
Product References and Citations for anti-FTH1 antibody	1. Almeida, R.S., et.al., PLoS Pathog. 4(11), E1000217 (2008).

Other Notes	Small volumes of anti-FTH1 antibody 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.



Western Blot (WB) of anti-FTH1 antibody
Western Blot analysis of A2058 cell line lysates (35ug/lane) usingMBS629951. FTH1 (arrow) was detected using theMBS629951.



Immunohistochemistry (IHC) of anti-FTH1 antibody
Formalin-fixed and paraffin-embedded human hepatocarcinoma usingMBS629951, which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry.

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_002023.2
UniProt Primary Accession #	P02794
UniProt Secondary Accession #	Q3KRA8; Q3SWW1; B3KNR5
UniProt Related Accession #	P02794
GenBank Nucleotide #	NM_002032.2
NCBI Official Full Name	ferritin heavy chain
NCBI Official Synonym Full Names	ferritin, heavy polypeptide 1
NCBI Official Symbol	FTH1
NCBI Official Synonym Symbols	FHC; FTH; 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; apoferritin; ferritin H subunit; placenta immunoregulatory factor; proliferation-inducing protein 15; cell proliferation-inducing gene 15 protein

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.** Data indicate that ferritin levels and hyperuricemia are two independently significant factors associated with alanine aminotransferase (ALT) elevation among obese adolescents.
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