Ferritin Heavy Chain (FTH1) Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	Ferritin heavy chain (FTH1), Polyclonal Antibody
Full Product Name	Rabbit anti-human Ferritin heavy chain polyclonal Antibody, Biotin conjugated
Product Gene Name	anti-FTH1 antibody
Product Synonym Names	Ferritin heavy chain (Ferritin H subunit) (EC 1.16.3.1) (Cell proliferation-inducing gene 15 protein) [Cleaved into: Ferritin heavy chain, N-terminally processed], FTH1, FTH FTHL6
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid Preservative: 0.03% Proclin 300 Constituents: 50% Glycerol, 0.01M PBS, PH 7.4
Purity/Purification	> 95%, Protein G purified
Preparation and Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Matching Pairs	Unconjugated Antibody: Ferritin heavy chain (MBS719858) Biotin Conjugated Antibody: Ferritin heavy chain (MBS719440)
OMIM	134770
3D Structure	ModBase 3D Structure for P02794
Conjugate	Biotin
Immunogen	Recombinant Human Ferritin heavy chain protein (2-183AA)
Immunogen Species	Homo sapiens (Human)
Research Area	Neuroscience
Target Names	FTH1
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-FTH1 antibody	ELISA (EIA)
Related Product Information for anti-FTH1 antibody	MBS719440 is an antibody targeting FTH1. Also known as Rabbit anti-human Ferritin heavy chain polyclonal Antibody, Biotin conjugated. Reactive in Human. Host: Rabbit.
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.

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; 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	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 ().
Research Articles on FTH1	**1.** high cytoplasmic FTH1 was associated with favorable prognosis whereas nuclear FTH1 staining was associated with adverse prognosis in triple negative breast cancer
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