

Product datasheet for PH309845

Ferritin Heavy Chain (FTH1) (NM_002032) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	FTH1 MS Standard C13 and N15-labeled recombinant protein (NP_002023)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC209845
Predicted MW:	21.2 kDa
Protein Sequence:	>RC209845 protein sequence Red=Cloning site Green=Tags(s) MTTASTSQVRQNYHQDSEAAINRQINLELYASYVYLMSYFYFDRDDVALKNFAKYFLHQSHEEREHAEKL MKLQNRGGRIFLQDIKKPDCDDWESGLNAMECALHLEKNVNQSLLELHKLATDKNDPHLCDFIETHYLN EQVKAIKELGDHVTNLRKMGAPESGLAEYLFDKHTLGSDNES TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_002023
RefSeq Size:	1245
RefSeq ORF:	549
Synonyms:	FHC; FTH; FTHL6; HFE5; PIG15; PLIF
Locus ID:	2495
UniProt ID:	P02794 , A0A024R525



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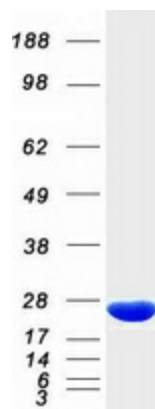
Cytogenetics: 11q12.3

Summary: 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]

Protein Families: Druggable Genome

Protein Pathways: Porphyrin and chlorophyll metabolism

Product images:



Coomassie blue staining of purified FTH1 protein (Cat# [TP309845]). The protein was produced from HEK293T cells transfected with FTH1 cDNA clone (Cat# [RC209845]) using MegaTran 2.0 (Cat# [TT210002]).