

FTL Antibody
Purified Mouse Monoclonal Antibody
Catalog # AO1949a**Specification****FTL Antibody - Product Information**

Application	WB, IHC, ICC, E
Primary Accession	P02792
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Calculated MW	20kDa KDa

Description

This gene encodes the light subunit of the ferritin protein. Ferritin is 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 this light chain ferritin gene are associated with several neurodegenerative diseases and hyperferritinemia-cataract syndrome. This gene has multiple pseudogenes.

Immunogen

Purified recombinant fragment of human FTL (AA: FULL(1-157)) expressed in E. Coli.

Formulation

Purified antibody in PBS with 0.05% sodium azide.

FTL Antibody - Additional Information

Gene ID 2512

Other Names

Ferritin light chain, Ferritin L subunit, FTL

Dilution

WB~~1/500 - 1/2000

IHC~~1/200 - 1/1000

ICC~~N/A

E~~1/10000

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

FTL Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

FTL Antibody - Protein Information

Name FTL

Function

Stores iron in a soluble, non-toxic, readily available form. Important for iron homeostasis. 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 (By similarity). Delivery to lysosomes by the cargo receptor NCOA4 for autophagic degradation and release of iron (PubMed: <http://www.uniprot.org/citations/24695223> target="_blank">24695223).

Cellular Location

Cytoplasmic vesicle, autophagosome. Cytoplasm {ECO:0000250|UniProtKB:P29391}. Autolysosome {ECO:0000250|UniProtKB:P29391}

FTL Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)