

Rabbit FTL Polyclonal Antibody | anti-FTL antibody

FTL Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA326369	Rabbit	Human, Mouse, Rat	ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

FTL; Polyclonal Antibody; FTL Antibody; Ferritin L chain; Ferritin L subunit; Ferritin light chain; Ferritin light polypeptide; ferritin light polypeptide like 3; FRIL_HUMAN; LFTD; NBIA 3; NBIA3; anti-FTL antibody

PRODUCT SPECIFICATIONS

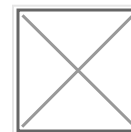
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	FTL antibody detects endogenous levels of total FTL
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	175
Applicable Applications for anti-FTL antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human FTL
Predicted Cross Reactivity	Pig, Bovine, Horse, Rabbit, Dog, Xenopus
Similarity	Pig (100%), Bovine (100%), Horse (100%), Rabbit (100%), Dog (100%), Xenopus (80%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



WB (Western Blot)

Western blot analysis of extracts from mouse liver, rat liver, using FTL Antibody.



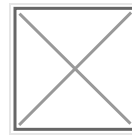
IF (Immunofluorescence)

AAA326369 staining HepG2 cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody, diluted at 1/600, was used as secondary antibody.



IHC (Immunohistochemistry)

AAA326369 at 1/100 staining Human prostate tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



WB (Western Blot)

Western blot analysis of Mouse liver tissue lysates, using FTL Antibody. The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-FTL antibody

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.

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).

Subunit Structure: 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. Iron enters the spherical protein shell through pores that are formed between subunits. Mutations leading to truncation or the addition of extra residues at the C-terminus interfere with normal pore formation and with iron accumulation.

Similarity: Belongs to the ferritin family.

NCBI AND UNIPROT INFORMATION

NCBI GI #	20149498
NCBI GeneID	2512
NCBI Accession #	NP_000137.2
NCBI GenBank Nucleotide #	NM_000146.3
UniProt Accession #	P02792 ; Q6IBT7 ; Q7Z2W1 ; Q86WI9 ; Q8WU07 ; Q96AU9 ; Q96CU0 ; Q9BTZ8 ; B2R4B9
Molecular Weight	Observed: 19 kDa Predicted: 21 kDa
NCBI Official Full Name	ferritin light chain
NCBI Official Synonym Full Names	ferritin light chain
NCBI Official Symbol	FTL
NCBI Official Synonym Symbols	LFTD; NBIA3
NCBI Protein Information	ferritin light chain
UniProt Protein Name	Ferritin light chain
UniProt Gene Name	FTL
UniProt Synonym Gene Names	Ferritin L subunit

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.