
Product Name: KO-Validated FTL Mouse Monoclonal Antibody**Catalog #: KVA00053**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Mouse
Application	WB,IHC-P
Reactivity	Human,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Mouse IgG1
Clonality	Mouse mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:400-1:2,000; IHC-P 1:100-1:200
Molecular Weight	Calculated MW: 20.0kDa

Antigen Information

Gene Name	FTL
Alternative Names	FTL; Ferritin Light Chain; Ferritin L Subunit; NBIA3; FTL1; Ferritin Light Polypeptide-Like 3; Ferritin, Light Polypeptide; Ferritin L-Chain; MGC71996; Neurodegeneration With Brain Iron Accumulation 3; Epididymis Secretory Sperm Binding Protein; L Apoferritin; LFTD
Gene ID	2512.0
SwissProt ID	P02792
Immunogen	Recombinant protein of human FTL

Background

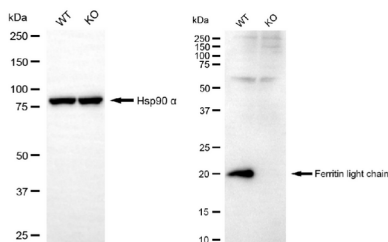
This gene encodes the light subunit of the ferritin protein. Ferritin is the major intracellular iron storage protein in prokaryotes and eukaryotes. It is composed of 24 subunits of the heavy and light ferritin chains. Variation in ferritin subunit composition

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. [provided by RefSeq, Jul 2008]

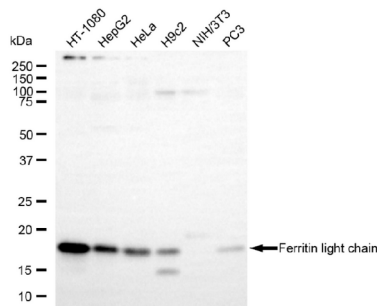
Research Area

Neuroscience, Cardiovascular, Signal Transduction, Metabolism

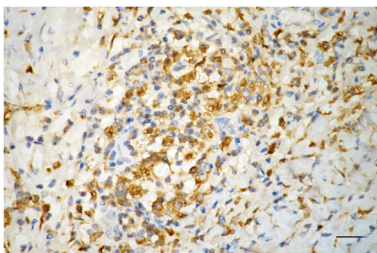
Image Data



Western blotting analysis using ferritin light chain antibody (KVA00053). Ferritin light chain expression in wild type (WT) and ferritin light chain (FTL) knockout (KO) HSHC cells with 40 μ g of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with ferritin light chain antibody (KVA00053, 1:2,000) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.



Western blotting analysis using ferritin light chain antibody (KVA00053). Total cell lysates (30 μ g) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with ferritin light chain antibody (KVA00053, 1:2,000) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.



Immunohistochemistry was performed on paraffin-embedded human pancreatic adenocarcinoma using ferritin light chain antibody (KVA00053, 1:200). Antigen retrieval was done in sodium citrate buffer (pH 6.0). DAB was used for detection, with hematoxylin counterstaining. Images were acquired using a Nikon Ci-L Plus microscope (40 $\times$ objective). Scale bar: 25 μ m.