

# FTL Recombinant monoclonal antibody

Catalog Number: 81166-3-RR

## Basic Information

<b>Catalog Number:</b> 81166-3-RR	<b>GenBank Accession Number:</b> BC008439	<b>Purification Method:</b> Protein A purification
<b>Source:</b> Rabbit	<b>GeneID (NCBI):</b> 2512	<b>CloneNo.:</b> 251048G12
<b>Isotype:</b> IgG	<b>UNIPROT ID:</b> P02792	<b>Recommended Dilutions:</b> WB: 1:5000-1:50000 IHC: 1:400-1:1600 IF/ICC: 1:250-1:1000
<b>Immunogen Catalog Number:</b> AG20637	<b>Full Name:</b> ferritin, light polypeptide	
	<b>Calculated MW:</b> 19 kDa	
	<b>Observed MW:</b> 18 kDa	

## Applications

<b>Tested Applications:</b> WB, IHC, IF/ICC, ELISA	<b>Positive Controls:</b>
<b>Species Specificity:</b> human, mouse	<b>WB :</b> A549 cells, HepG2 cells
<b>Note-IHC:</b> suggested antigen retrieval with <b>TE buffer pH 9.0; (*)</b> Alternatively, antigen retrieval may be performed with <b>citrate buffer pH 6.0</b>	<b>IHC :</b> mouse liver tissue,
	<b>IF/ICC :</b> A549 cells, HepG2 cells

## Background Information

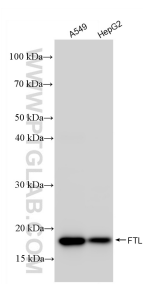
FTL belongs to the ferritin family. It stores iron in a soluble, non-toxic, readily available form. FTL is important for iron homeostasis. It plays a role in delivery of iron to cells. FTL mediates iron uptake in capsule cells of the developing kidney. Mutation of FTL will cause hereditary hyperferritinemia-cataract syndrome (HHCS) or neurodegeneration with brain iron accumulation type 3 (NBIA3). Ferritin light polypeptide (FTL) and ferritin heavy polypeptide (FTH1) were the main constituents the striatum and cerebellar cortex revealed.

## Storage

**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol, pH7.3  
**Aliquoting is unnecessary for -20°C storage**

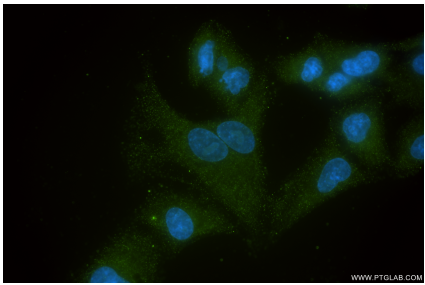


Selected Validation Data

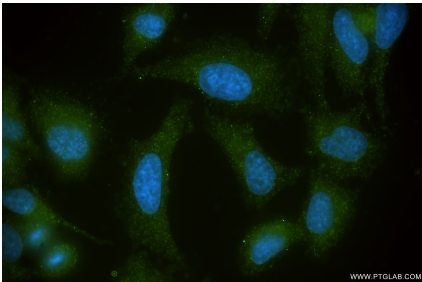


Various lysates were subjected to SDS PAGE followed by western blot with 81166-3-RR (FTL antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.

Immunohistochemical analysis of paraffin-embedded mouse liver tissue slide using 81166-3-RR (FTL antibody) at dilution of 1:800 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed A549 cells using FTL antibody (81166-3-RR, Clone: 251048G12 ) at dilution of 1:500 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using FTL antibody (81166-3-RR, Clone: 251048G12 ) at dilution of 1:500 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).