

# Ferritin light chain Monoclonal antibody

Catalog Number: 68068-1-Ig

14 Publications

## Basic Information

## Catalog Number:

68068-1-Ig

## Concentration:

1000 µg/ml

## Source:

Mouse

## Isotype:

IgG1

## Immunogen Catalog Number:

AG20637

## GenBank Accession Number:

BC008439

## GeneID (NCBI):

2512

## UNIPROT ID:

P02792

## Full Name:

ferritin, light polypeptide

## Calculated MW:

19 kDa

## Observed MW:

18-20 kDa

## Purification Method:

Protein G purification

## CloneNo.:

1F9F5

## Recommended Dilutions:

WB 1:5000-1:50000

IHC 1:500-1:2000

IF/ICC 1:400-1:1600

## Applications

## Tested Applications:

WB, IHC, IF/ICC, ELISA

## Cited Applications:

WB, IHC

## Species Specificity:

Human, Mouse

## Cited Species:

human, mouse, rat

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

## Positive Controls:

**WB:** A549 cells, HeLa cells, HepG2 cells, human placenta tissue

**IHC:** mouse brain tissue, human prostate cancer tissue, human liver cancer tissue, human colon cancer tissue

**IF/ICC:** 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.

## Notable Publications

Author	Pubmed ID	Journal	Application
Liqiu Li	35875069	Front Oncol	WB
Yoshiyuki Henning	35906211	Cell Death Dis	WB
Yaouxue Guo	39797928	J Neuroimmune Pharmacol	WB

## Storage

## Storage:

Store at -20°C. Stable for one year after shipment.

## Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

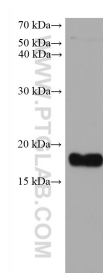
For technical support and original validation data for this product please contact:

T: 4006900926

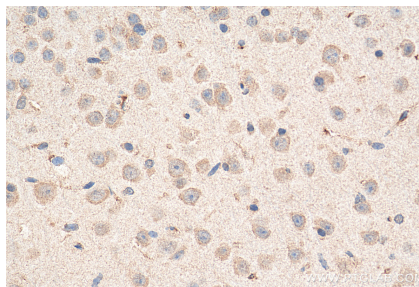
E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)W: [ptgcn.com](http://ptgcn.com)

**This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.**

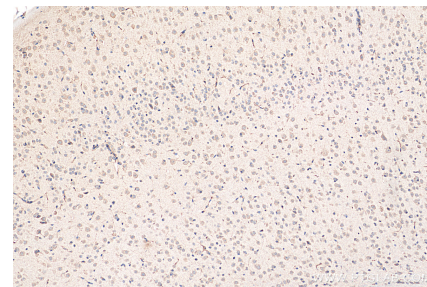
## Selected Validation Data



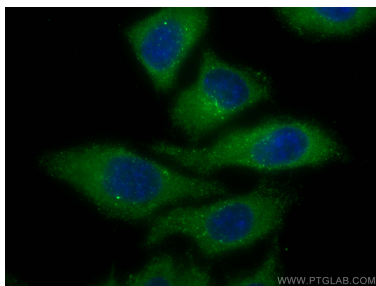
A549 cells were subjected to SDS PAGE followed by western blot with 68068-1-Ig (Ferritin light chain antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 68068-1-Ig (Ferritin light chain antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 68068-1-Ig (Ferritin light chain antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Methanol) fixed HepG2 cells using FTL antibody (68068-1-Ig, Clone: 1F9F5) at dilution of 1:800 and CoraLite®488-Conjugated Goat Anti-Mouse IgG(H+L).