

Ferritin light chain Monoclonal antibody

Catalog Number: 68068-1-Ig

14 Publications

Basic Information

Catalog Number:

68068-1-Ig

Size:

150ul, Concentration: 1000 ug/ml by Nanodrop;

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
Yaoxue 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

*** 20ul sizes contain 0.1% BSA

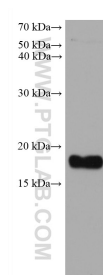
For technical support and original validation data for this product please contact:

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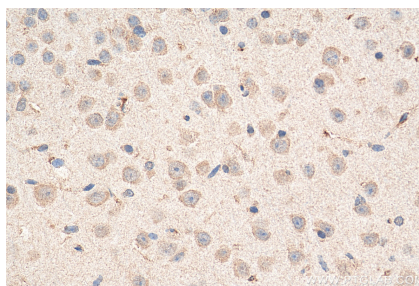
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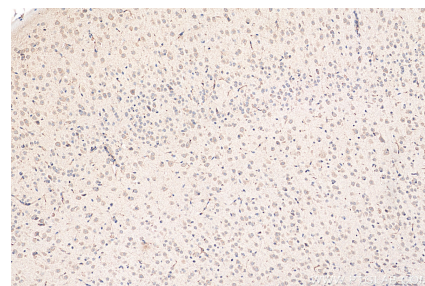
Selected Validation Data



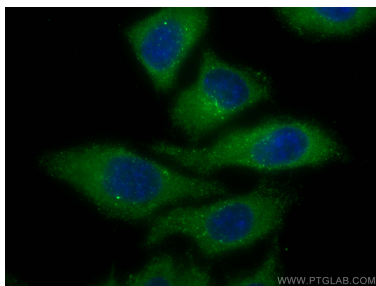
A549 cells were subjected to SDS PAGE followed by western blot with 68068-1-Ig (Ferritin light chain antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



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).