BOSTER BIOLOGICAL TECHNOLOGY
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Anti-Ferritin Light Chain FTL Monoclonal Antibody

Catalog Number: M01956-1

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Overview

Product Name	Anti-Ferritin Light Chain FTL Monoclonal Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-Ferritin Light Chain FTL Monoclonal Antibody catalog # M01956-1. Tested in WB, IHC, IP, Flow Cytometry applications. This antibody reacts with Human, Mouse, Rat.
Application	Flow Cytometry, IP, IHC, WB
Clonality	Monoclonal ACBG-6
Formulation	Rabbit IgG in stabilizing components, phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. *This antibody is supplied in a stabilized formulation. Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required.
Storage Instructions	Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	P02792

Technical Details

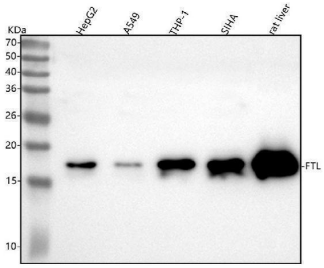
Immunogen	A synthesized peptide derived from human Ferritin Light Chain
Isotype	Rabbit IgG
Form	Liquid
Concentration	0.5mg/ml
Purification	Affinity-chromatography
Suggested Dilutions	WB, 1:500-2000

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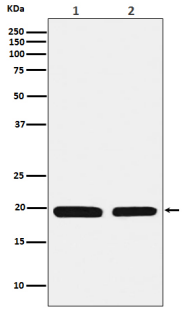
	IHC, 1:50-200 IP, 1:20 FC, 1:20

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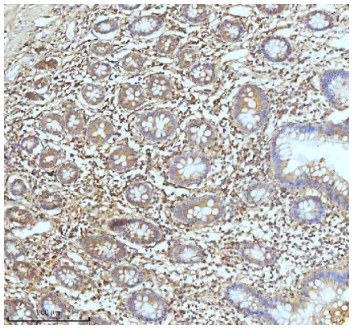
Anti-Ferritin Light Chain FTL Monoclonal Antibody (M01956-1) Images



Western blot analysis of Ferritin Light Chain using anti-Ferritin Light Chain antibody (M01956-1). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human HepG2 whole cell lysates, Lane 2: human A549 whole cell lysates, Lane 3: human THP-1 whole cell lysates, Lane 4: human SiHa whole cell lysates, Lane 5: rat liver tissue lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-Ferritin Light Chain antigen affinity purified monoclonal antibody (Catalog # M01956-1) at 1:1000 overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:500 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for Ferritin Light Chain at approximately 20 kDa. The expected band size for Ferritin Light Chain is at 20 kDa.



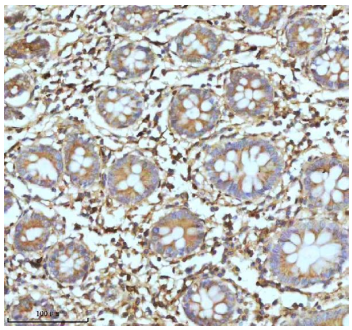
Western blot analysis of Ferritin Light Chain expression in (1) HepG2 cell lysate; (2) Mouse liver lysate.



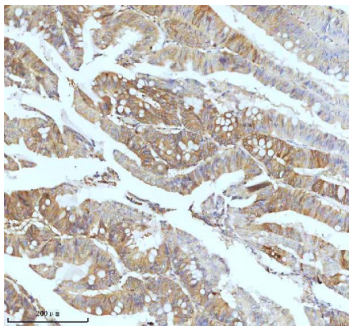
IHC analysis of Ferritin Light Chain using anti-Ferritin Light Chain antibody (M01956-1). Ferritin Light Chain was detected in a paraffin-embedded section of human colon tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1:50 rabbit anti-Ferritin Light Chain Antibody (M01956-1) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.

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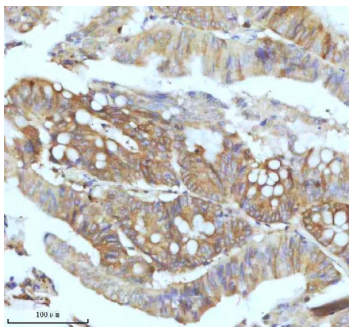
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1 Publications Citing This Product

1. PubMed ID: 33722599, Xiao J,Zhang S,Tu B,Jiang X,Cheng S,Tang Q,Zhang J,Qin X,Wang B,Zou Z,Chen C. Arsenite induces ferroptosis in the neuronal cells via activation of ferritinophagy. Food Chem Toxicol.2021 Mar 12:112114.doi:10.1016/j.fct.2021.112114.Epub ahead of print.PMID:33722599.

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