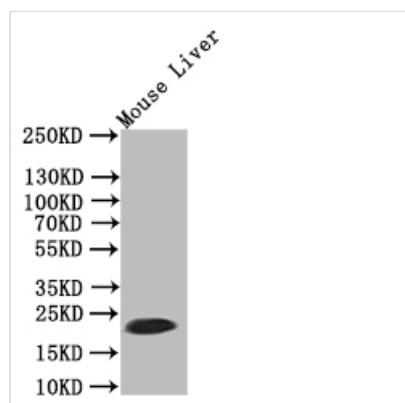




FTH1 Recombinant Monoclonal Antibody

Product Code	CSB-RA574579A0HU
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	P02794
Immunogen	A synthesized peptide derived from Human FTH1
Species Reactivity	Human, Mouse
Tested Applications	ELISA, WB, IF, FC; Recommended dilution: WB:1:500-1:2000, IF:1:50-1:200, FC:1:50-1:200
Form	Liquid
Conjugate	Non-conjugated
Storage Buffer	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purification Method	Affinity-chromatography
Isotype	Rabbit IgG
Clonality	Monoclonal
Product Type	Recombinant Antibody
Immunogen Species	Homo sapiens (Human)
Research Area	Neuroscience?Cancer?Cardiovascular;Metabolism;Signal transduction
Gene Names	FTH1
Clone No.	39G3

Image



Western Blot

Positive WB detected in: Mouse Liver tissue lysate

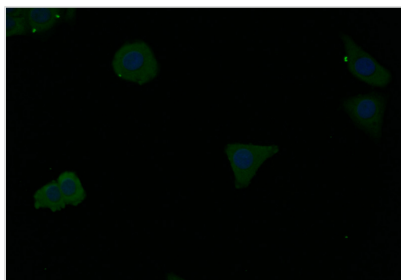
All lanes:Ferritin antibody at 1:500

Secondary

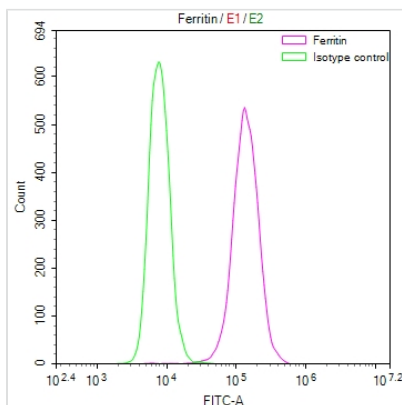
Goat polyclonal to rabbit IgG at 1/50000 dilution

Predicted band size: 21 kDa

Observed band size: 21 kDa



Immunofluorescence staining of HepG2 with CSB-RA574579A0HU at 1:10, counter-stained with DAPI. The cells were fixed in 4% formaldehyde and blocked in 10% normal Goat Serum. The cells were then incubated with the antibody overnight at 4°C. The secondary antibody was Alexa Fluor 497-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Overlay Peak curve showing 293 cells stained with CSB-RA574579A0HU (red line) at 1:50. The cells were fixed in 4% formaldehyde and permeated by 0.2% TritonX-100. Then 10% normal goat serum to block non-specific protein-protein interactions followed by the antibody (1μg/1*10⁶cells) for 45min at 4°C. The secondary antibody used was FITC-conjugated Goat Anti-rabbit IgG(H+L) at 1:200 dilution for 35min at 4°C. Control antibody (green line) was rabbit IgG (1μg/1*10⁶cells) used under the same conditions. Acquisition of >10,000 events was performed.

Description

The FTH1 recombinant monoclonal antibody is synthetically generated in vitro, starting with the extraction of FTH1 antibody genes from B cells isolated from immunoreactive rabbits. These genes are then amplified and cloned into suitable phage vectors, which are subsequently introduced into mammalian cell lines to enable the production of functional antibodies in substantial quantities. Following this, the FTH1 recombinant monoclonal antibody is subjected to affinity chromatography purification. It is suitable for diverse applications, including ELISA, WB, IF, and FC, allowing for the accurate detection of human and mouse FTH1 proteins.

FTH1 plays a crucial role in maintaining iron balance within cells, which is essential for a wide range of biological processes, including energy production, DNA synthesis, and cellular respiration. Dysregulation of FTH1 can lead to iron-related disorders and diseases.