

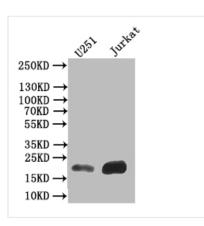




FTH1 Recombinant Monoclonal Antibody

| Product Code | CSB-RA009030MA1HU |
|----------------------------|-------------------------------------------------------------------------------------------|
| Storage | Upon receipt, store at -20°C or -80°C. Avoid repeated freeze. |
| Uniprot No. | P02794 |
| Immunogen | Recombinant Human FTH1 protein |
| Species Reactivity | Human |
| Tested Applications | ELISA, WB, IHC, FC; Recommended dilution: WB:1:1000-1:5000, IHC:1:20-1:200, FC:1:20-1:200 |
| Form | Liquid |
| Conjugate | Non-conjugated |
| Storage Buffer | Preservative: 0.03% Proclin 300 Constituents: 50% Glycerol, 0.01M PBS, PH 7.4 |
| Purification Method | Affinity-chromatography |
| Isotype | Mouse 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. | 18C10 |
| | |

Image



Western Blot

Positive WB detected in: U251 whole cell

lysate, JK whole cell lysate

All lanes: FTH1 antibody at 1:500

Secondary

Goat polyclonal to mouse IgG at 1/50000 dilution

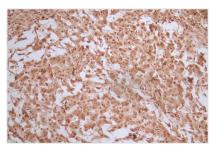
Predicted band size: 22 kDa Observed band size: 22 kDa

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IHC image of CSB-

RA009030MA1HU diluted at 1:50 and staining in

embedded human liver tissue performed on a Lei ca BondTM system. After dewaxing and hydratio n, antigen retrieval was mediated by high pressu re in a citrate buffer (pH 6.0). Section was blocke d with 10% normal goat serum 30min at RT. The n primary antibody (1% BSA) was incubated at 4 °C overnight. The primary is detected by a Goat anti-

Mouse IgG labeled by HRP and visualized using 0.05% DAB.

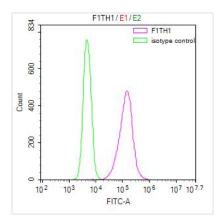


IHC image of CSB-

RA009030MA1HU diluted at 1:50 and staining in

embedded human rectal cancer performed on a Leica BondTM system. After dewaxing and hydr ation, antigen retrieval was mediated by high pre ssure in a citrate buffer (pH 6.0). Section was blo cked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a G oat anti-

Mouse IgG labeled by HRP and visualized using 0.05% DAB.



Overlay Peak curve showing 293 cells stained wi th CSB-RA009030MA1HU (red line) at 1:50. The cells were fixed in 4% formaldehyde (15min) and permeated by 0.2% TritonX-100 for 10min.

Then 10% normal goat serum was Incubated to block non-specific protein-

protein interactions followed by the antibody (1µg /1*10⁶cells) for 45 min at 4°C. The secondary ant ibody used was FITC-conjugated Goat Anti-Mouse IgG(H+L) at 1/200 dilution for 35 min at 4 °C. Isotype control antibody (green line) was mo use IgG1 (1µg/1*10⁶cells) used under the same conditions. Acquisition of >10,000 events was pe rformed.

Description

The production of the recombinant monoclonal antibody targeting FTH1 involves a series of steps. Firstly, FTH1 antibody genes are incorporated into plasmid vectors. These modified plasmid vectors are then introduced into suitable host cells for expression using exogenous protein expression technology. Following this, the FTH1 recombinant monoclonal antibody undergoes purification via affinity chromatography. It has undergone thorough validation for specific applications, including ELISA, WB, IHC, and FC. It's important to note that this antibody binds to both human and mouse FTH1 proteins.

FTH1 is a critical protein involved in iron homeostasis within cells. It functions as an iron-storage protein, helping store excess iron and release it when needed for cellular processes. Proper regulation of FTH1 and ferritin complexes is



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essential for maintaining iron balance and preventing iron-related toxicity.