

Anti-Ferritin heavy chain 1/FTH1 Antibody (3D735)

Product Details

Ig Type:	Mouse IgG2a
Reactivity:	Human
Conjugation:	Unconjugated
Clone:	3D735
Purification:	Affinity-chromatography

Applications

1. 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

2. IHC image of TMAH-00460 diluted at 1:50 and staining in paraffin-embedded human liver tissue performed on a Leica Bond™ system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked 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 Goat anti-Mouse IgG labeled by HRP and visualized using 0.05% DAB.

Verified Activity: 3. IHC image of TMAH-00460 diluted at 1:50 and staining in paraffin-embedded human rectal cancer performed on a Leica Bond™ system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked 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 Goat anti-Mouse IgG labeled by HRP and visualized using 0.05% DAB.

4. Overlay Peak curve showing 293 cells stained with TMAH-00460 (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*10⁶ cells) for 45 min at 4°C. The secondary antibody 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 mouse IgG1 (1µg/1*10⁶ cells) used under the same conditions. Acquisition of >10,000 events was performed.

Application: ELISA, FCM, IHC, WB

Recommended WB: 1:1000-1:5000; IHC: 1:20-1:200; FCM: 1:20-1:200.

Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

Antigen Details

Immunogen: Recombinant Protein: Human FTH1 Protein

Antigen Species: Human

Gene ID: 2495

Uniprot ID: P02794

Synonyms: Ferritin H subunit;FTH;Cell proliferation-inducing gene 15 protein;FTH1;Ferritin heavy chain; FTHL6

Biology Area: Neuroscience, Cancer, Cardiovascular, Metabolism, Signal transduction

Research Background

Stores iron in a soluble, non-toxic, readily available form. Important for iron homeostasis. Has ferroxidase activity. Iron is taken up in the ferrous form and deposited as ferric hydroxides after oxidation. Also plays a role in delivery of iron to cells. Mediates iron uptake in capsule cells of the developing kidney.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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