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FRIH Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP7370b

Specification

FRIH Antibody (C-term) - Product Information

Application	**WB,E**
Primary Accession	P02794
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**21226**
Antigen Region	**153-180**

FRIH Antibody (C-term) - Additional Information

Gene ID 2495

Other Names
Ferritin heavy chain, Ferritin H subunit, Cell proliferation-inducing gene 15 protein, Ferritin heavy chain, N-terminally processed, FTH1, FTH, FTHL6

Target/Specificity
This FRIH antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 153-180 amino acids from the C-terminal region of human FRIH.

Dilution
WB~~1:1000
E~~Use at an assay dependent concentration.

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
FRIH Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

FRIH Antibody (C-term) - Protein Information

Name FTH1

Synonyms FTH, FTHL6

Function Stores iron in a soluble, non-toxic, readily available form. Important for iron homeostasis. Has ferroxidase activity (PubMed:9003196). Iron is taken up in the ferrous form and deposited as ferric hydroxides after oxidation (PubMed:9003196). Also plays a role in delivery of iron to cells (By similarity). Mediates iron uptake in capsule cells of the developing kidney (By similarity). Delivery to lysosomes is mediated by the cargo receptor NCOA4 for autophagic degradation and release of iron (PubMed:24695223, PubMed:26436293).

Cellular Location
Cytoplasm. Lysosome. Cytoplasmic vesicle, autophagosome

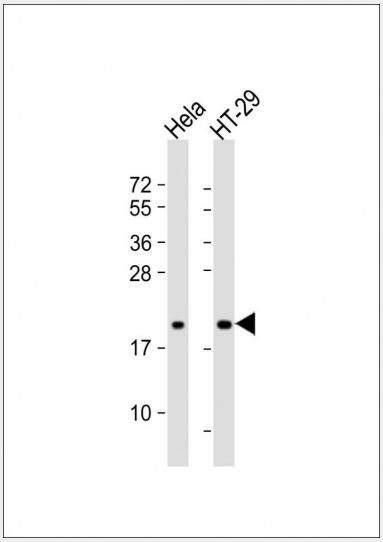
Tissue Location
Expressed in the liver.

FRIH Antibody (C-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

FRIH Antibody (C-term) - Images



All lanes : Anti-FRIH Antibody (C-term) at 1:1000 dilution Lane 1: Hela whole cell lysate Lane 2: HT-29 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 21 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

FRIH Antibody (C-term) - Background

FRIH is the heavy subunit of ferritin, the major intracellular iron storage protein in prokaryotes and eukaryotes. It is composed of 24 subunits of the heavy and light ferritin chains. Variation in ferritin

subunit composition may affect the rates of iron uptake and release in different tissues. A major function of ferritin is the storage of iron in a soluble and nontoxic state. Defects in ferritin proteins are associated with several neurodegenerative diseases.

FRIH Antibody (C-term) - References

Coffman,L.G., Proc. Natl. Acad. Sci. U.S.A. 106 (2), 570-575 (2009)
Sammarco,M.C., J. Biol. Chem. 283 (8), 4578-4587 (2008)