

Datasheet for ABIN6939447
anti-FTH1 antibody (AA 58-180)[Go to Product page](#)

4 Images

Overview

Quantity:	100 µg
Target:	FTH1
Binding Specificity:	AA 58-180
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This FTH1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Staining Methods (StM)

Product Details

Immunogen:	Recombinant human FTH1 protein fragment (around aa 58-180) (exact sequence is proprietary)
Clone:	FTH-2081
Isotype:	IgG2a kappa
Purification:	Purified by Protein A/G

Target Details

Target:	FTH1
Alternative Name:	FTH1 (FTH1 Products)
Background:	Mammalian ferritins consist of 24 subunits made up of 2 types of poly-peptide chains, ferritin

Target Details

heavy chain and ferritin light chain, which each have unique functions. Ferritin heavy chains catalyze the first step in iron storage, the oxidation of Fe(II), whereas ferritin light chains promote the nucleation of ferrihydrite, enabling storage of Fe(III). The most prominent role of mammalian ferritins is to provide iron-buffering capacity to cells. In addition to iron buffering, heavy chain ferritin is also involved in the regulation of thymidine biosynthesis via increased expression of cytoplasmic serine hydroxymethyltransferase, which is a limiting factor in thymidylate synthesis in MCF-7 cells. Light chain ferritin is involved in cataracts by at least two mechanisms: hereditary hyperferritinemia cataract syndrome, in which light chain ferritin is overexpressed, and oxidative stress, an important factor in the development of aging-related cataracts.

Molecular Weight: 21kDa

Gene ID: 2495

UniProt: [P02794](#)

Pathways: [Transition Metal Ion Homeostasis](#)

Application Details

Application Notes: Positive Control: HepG2, HeLa, HL-60 or 293T cells. Pancreas, Liver, Cerebellum or Testis.
Known Application: Western Blot (1-2 µg/mL), Immunohistochemistry (Formalin-fixed) (0.1-0.2 µg/mL for 30 min at RT)(Staining of formalin-fixed tissues requires boiling tissue sections in 10 mM Citrate Buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 minutes)Optimal dilution for a specific application should be determined.

Restrictions: For Research Use only

Handling

Concentration: 200 µg/mL

Buffer: 10 mM PBS with 0.05 % BSA & 0.05 % azide.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

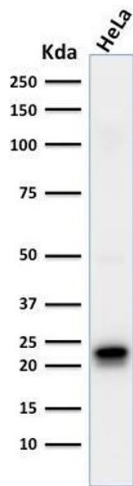
Storage: 4 °C, -80 °C

Storage Comment: Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody

is stable for 24 months. Non-hazardous. No MSDS required.

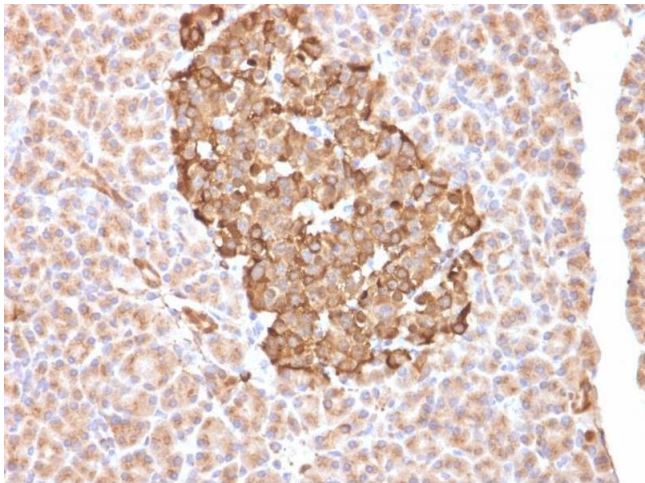
Expiry Date: 24 months

Images



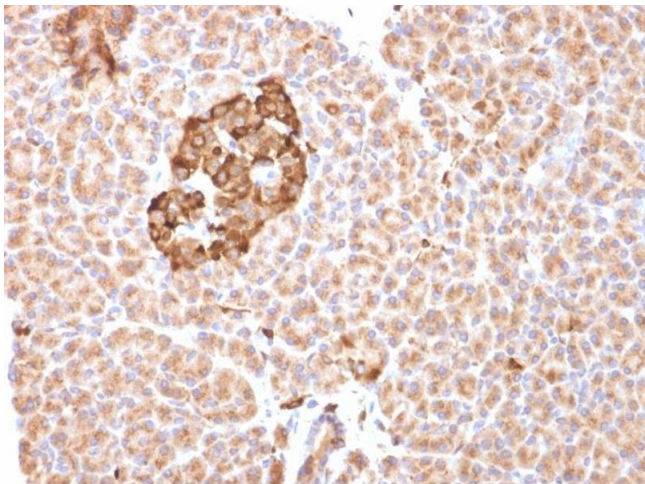
Western Blotting

Image 1. Western Blot of HeLa, cell lysate using Ferritin, Heavy Chain Mouse Monoclonal Antibody (FTH/2081).



Immunohistochemistry

Image 2. Formalin-fixed, paraffin-embedded human pancreas stained with Ferritin, Heavy Chain Mouse Monoclonal Antibody (FTH/2081). Confirmation of Purity and Integrity of Antibody.



Immunohistochemistry

Image 3. Formalin-fixed, paraffin-embedded human pancreas stained with Ferritin, Heavy Chain Mouse Monoclonal Antibody (FTH/2081). Confirmation of Purity and Integrity of Antibody.

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN6939447.