Mouse anti-Human Ferritin (FTH) Monoclonal Antibody | anti-FTH1 antibody

Ferritin, Heavy Chain (FTH) (Microglia Marker)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA215424	**Mouse**	**Human**	**Western Blot, Immunohistochemistry**

PRODUCT SYNONYMS

Ferritin (FTH); Monoclonal Antibody; Ferritin; Heavy Chain (FTH) (Microglia Marker); Apoferritin; Cell proliferation-inducing gene 15 protein; Ferritin H subunit; Ferritin heavy chain; FHC; FRIH; FTH1; FTHL6; Iron overload autosomal dominant; PIG15; Placenta immunoregulatory factor; Proliferation inducing gene 15 protein (PLIF); anti-FTH1 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG
Clone Number	FTH/2082
Specificity	Mammalian ferritins consist of 24 subunits made up of 2 types of poly-peptide chains, ferritin heavy chain and ferritin light chain, which each have unique functions. Ferritin heavy chains catalyze the first step in iron storage, the oxidationof FeI(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.
Purity/Purification	Purified Ab with BSA and Azide at 200ug/ml or Purified Ab with BSA and Azide at 200ug/ml or Purified Ab WITHOUT BSA and Azide at 1.0mg/ml
Form/Format	200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
Sequence Length	183
Applicable Applications for anti-FTH1 antibody	WB (Western Blot), IHC (Immunohistochemistry)
Immunogen	Recombinant Human FTH1 protein fragment (around aa 58-180) (exact sequence is proprietary)
Cellular Localization	Cytoplasmic
Hu-chromosome Location	11q12.3
Positive Control	Human liver tissue. Liver tissue lysate.
Preparation and Storage	Antibody with azide: store at 2 to 8 degree C. Antibody without azide: store at -20 to -80 degree C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

IMAGES



IHC (Immunohistochemisry)
Formalin-fixed, paraffin-embedded Human Pancreas stained with Ferritin, Heavy Chain Mouse Monoclonal Antibody (FTH/2082).



SDS-PAGE
SDS-PAGE Analysis Purified Ferritin, Heavy Chain Mouse Monoclonal Antibody (FTH/2082). Confirmation of Purity and Integrity of Antibody.



WB (Western Blot)
Western Blot Analysis of HeLa cell lysate using Ferritin, Heavy Chain Mouse Monoclonal Antibody (FTH/2082).

ADDITIONAL INFORMATION

References	Y. Kaneko, T. Kitamoto, J. Tateishi, K. Yamaguchi. Ferritin immunohistochemistry as a marker for microglia. Acta Neuropathologica. 1989, Volume 79; 129-136.

NCBI AND UNIPROT INFORMATION

NCBI GI #	56682959
NCBI GeneID	2495
NCBI Accession #	NP_002023.2
NCBI GenBank Nucleotide #	NP_002023.2
UniProt Accession #	P02794
Molecular Weight	21kDa
NCBI Official Full Name	ferritin heavy chain
NCBI Official Synonym Full Names	ferritin heavy chain 1
NCBI Official Symbol	FTH1
NCBI Official Synonym Symbols	FHC; FTH; HFE5; PLIF; FTHL6; PIG15
NCBI Protein Information	ferritin heavy chain
UniProt Protein Name	Ferritin heavy chain
UniProt Gene Name	**FTH1**
UniProt Synonym Gene Names	FTH; FTHL6; Ferritin H subunit
UniProt Entry Name	FRIH_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: https://stage.aaabiotech.com/monoclonal/ferritin-fth-antibody-clone-fth-2082-western-blot-immunohistochemistry-elisa/215424