

Mouse anti-Human Ferritin Monoclonal Antibody | anti-FTL antibody

Ferritin, Light Chain (Node-Negative Breast Tumor Prognostic Marker)

CATALOG # AAA215481	HOST Mouse	REACTIVITY Human	APPLICATIONS Western Blot, Immunohistochemistry, ELISA
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PRODUCT SYNONYMS

Ferritin; Monoclonal Antibody; Light Chain (Node-Negative Breast Tumor Prognostic Marker); Ferritin L chain; Ferritin L subunit; Ferritin light chain; Ferritin light polypeptide; FTL; LFTD; NBIA3; anti-FTL antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG2b, kappa
Clone Number	FTL/1386
Specificity	Mammalian ferritins consist of 24 subunits made up of 2 types of polypeptide chains, ferritin heavy chain and ferritin light chain. 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). 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 ageing-related cataracts.
Purity/Purification	Purified Ab conjugated to Biotin
Form/Format	Antibody purified from Bioreactor Concentrate by Protein A/G and conjugated to Biotin. Prepared in 10mM PBS with 0.05% BSA and 0.05% azide.
Sequence Length	175
Applicable Applications for anti-FTL antibody	WB (Western Blot), IHC (Immunohistochemistry), ELISA
Immunogen	Recombinant fragment (around aa 38-165) of Human FTL protein (exact sequence is proprietary)
Cellular Localization	Cytoplasmic
Hu-chromosome Location	19q13.33
Positive Control	HepG2, HeLa or 293T cells. Human pancreas, Liver, Cerebellum or Testis.
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



Application Data

Analysis of Protein Array containing more than 19,000 full-length human proteins using Ferritin, Light Chain Mouse Monoclonal Antibody (FTL/1386) Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProt™ array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProt™ are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.



SDS-PAGE

SDS-PAGE Analysis Purified Ferritin LC Mouse Monoclonal Antibody (FTL/1386) (unconjugated). Confirmation of Integrity and Purity of Antibody



IHC (Immunohistochemistry)

Formalin-fixed, paraffin-embedded human kidney stained with Biotinylated Ferritin, Light Chain Mouse Monoclonal Antibody (FTL/1386).



IHC (Immunohistochemistry)

Formalin-fixed, paraffin-embedded human kidney stained with Biotinylated Ferritin, Light Chain Mouse Monoclonal Antibody (FTL/1386).

ADDITIONAL INFORMATION

References	J z quel P, et. al. Validation of tumor-associated macrophage ferritin light chain as a prognostic biomarker in node-negative breast cancer tumors: A multicentric 2004 national PHRC study Int. J Cancer. 2012;131(2):426-37. Y.Kaneko,et al. Ferritin immunohistochemistry as a marker for microglia. Acta Neuropathologica. 1989,Volume 79; 129-136.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	20149498
NCBI GeneID	2512
NCBI Accession #	NP_000137.2
NCBI GenBank Nucleotide #	NP_000137.2
UniProt Accession #	P02792
Molecular Weight	19-25kDa
NCBI Official Full Name	ferritin light chain
NCBI Official Synonym Full Names	ferritin light chain
NCBI Official Symbol	FTL
NCBI Official Synonym Symbols	LFTD; NBIA3
NCBI Protein Information	ferritin light chain
UniProt Protein Name	Ferritin light chain
UniProt Gene Name	FTL
UniProt Synonym Gene Names	Ferritin L subunit
UniProt Entry Name	FRIL_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-antibody-clone-ftl-1386-western-blot-immunohistochemistry-elisa/215481>