

Mouse anti-Human Ferritin, Light Chain (FTL) Monoclonal Antibody | anti-FTL antibody

Ferritin, Light Chain (FTL) (Microglia Marker)

CATALOG # AAA23907	HOST Mouse	REACTIVITY Human	APPLICATIONS Western Blot, Immunohistochemistry
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PRODUCT SYNONYMS

Ferritin; Light Chain (FTL); Monoclonal Antibody; Light Chain (FTL) (Microglia 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	IgG2a Kappa
Clone Number	FTL/1387
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.
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.
Sequence Length	175
Applicable Applications for anti-FTL antibody	WB (Western Blot), IHC (Immunohistochemistry)
Application Notes	IHC: 1-2ug/ml, WB: 2-4ug/ml Western Blot (1-2ug/ml) Immunohistochemistry (Formalin-fixed)(0.1-0.2ug/ml for 30 min at RT) (Staining of formalin-fixed tissuesrequires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes) Optimal dilution for a specific application should be determined.
Immunogen	Recombinant human FTL protein fragment (aa 38-165)
Positive Control	Cerebellum or Testis., HeLa, HePG2, HL-60 or 293T cells. Pancreas, Kidney, Liver
Research Areas	Cardiovascular, Dendritic Cell Marker, Immuno Oncology, Immunology
Preparation and Storage	Antibody with azide - Store at 2-8°C

IMAGES



WB (Western Blot)
Western Blot Analysis of human kidney cell lysate using Ferritin, Light Chain Mouse Monoclonal Antibody (FTL/1387).



Application Data
Analysis of Protein Array containing more than 19,000 full-length human proteins using Ferritin, Light Chain Mouse Monoclonal Antibody (FTL/1387). 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, Light Chain Mouse Monoclonal Antibody (FTL/1387). Confirmation of Integrity and Purity of Antibody



WB (Western Blot)
Western Blot Analysis of human HeLa Cell lysate using Ferritin, Light Chain Mouse Monoclonal Antibody (FTL/1387).



IHC (Immunohistochemistry)
Formalin-fixed, paraffin-embedded Human Prostate stained with Ferritin, Light Chain Mouse Monoclonal Antibody (FTL/1387).



IHC (Immunohistochemistry)
Formalin-fixed, paraffin-embedded Human Pancreas stained with Ferritin, Light Chain Mouse Monoclonal Antibody (FTL/1387).

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.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	20149498
NCBI GeneID	2512
NCBI Accession #	NP_000137.2
NCBI GenBank Nucleotide #	NM_000146.3
UniProt Accession #	P02792; Q6IBT7; Q7Z2W1; Q86WI9; Q8WU07; Q96AU9; Q96CU0; Q9BTZ8; B2R4B9
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

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-light-chain-ftl-antibody-clone-ftl-1387-western-blot-immunohistochemistry-elisa/23907>