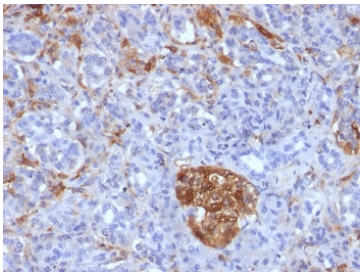
Ferritin Light Chain Antibody [clone FTL/1386] (V3351)

Catalog No.	Formulation	Size
V3351-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V3351-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V3351SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

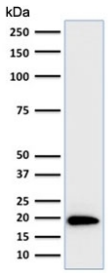
Citations (1)

Bulk quote request

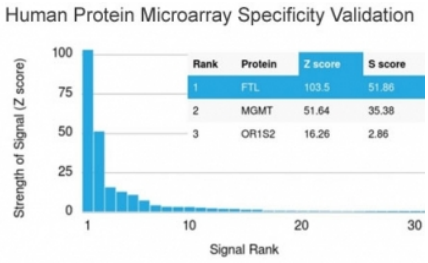
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2b, kappa
Clone Name	FTL/1386
Purity	Protein G affinity chromatography
Buffer	1X PBS, pH 7.4
UniProt	P02792
Localization	Cytoplasmic
Applications	ELISA : order BSA/sodium azide-free format for coating Western Blot : 1-2ug/ml Immunohistochemistry (FFPE) : 0.25-0.5ug/ml
Limitations	This Ferritin Light Chain antibody is available for research use only.



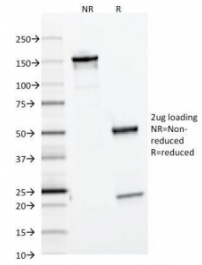
IHC staining of FFPE human pancreas with Ferritin Light Chain antibody (clone FTL/1386). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 10-20 min and allow to cool before testing.



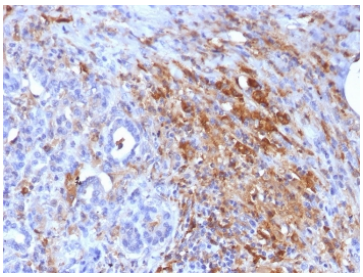
Western blot testing of human HeLa lysate with Ferritin Light Chain antibody (clone FTL/1386). Predicted molecular weight: ~20 kDa.



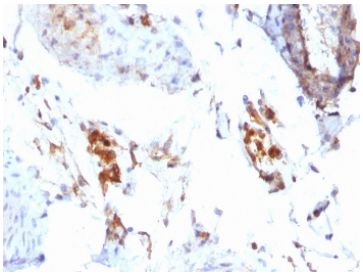
Analysis of HuProt(TM) microarray containing more than 19,000 full-length human proteins using Ferritin Light Chain antibody (clone FTL/1386). These results demonstrate the foremost specificity of the FTL/1386 mAb.
Z- and S- score: The Z-score represents the strength of a signal that an antibody (in combination with a fluorescently-tagged anti-IgG secondary Ab) produces when binding to a particular protein on the HuProt(TM) array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If the targets on the HuProt(TM) are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-scores. The S-score therefore represents the relative target specificity of an Ab to its intended target.



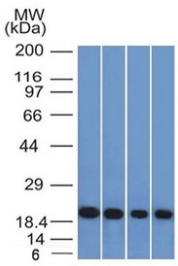
SDS-PAGE analysis of purified, BSA-free Ferritin Light Chain antibody (clone FTL/1386) as confirmation of integrity and purity.



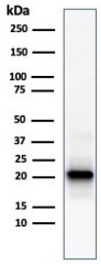
IHC staining of FFPE human pancreas with Ferritin Light Chain antibody (clone FTL/1386). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 10-20 min and allow to cool before testing.



IHC staining of FFPE human testicular carcinoma with Ferritin Light Chain antibody (clone FTL/1386). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 10-20 min and allow to cool before testing.



Western blot testing of human 1) A431, 2) HeLa, 3) liver and 4) testis lysate with Ferritin Light Chain antibody (clone FTL/1386). Predicted molecular weight: ~20 kDa.



Western blot testing of human kidney lysate with recombinant FTL antibody (clone FTL/1386). Predicted molecular weight: ~20 kDa.

Description

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.

Application Notes

The concentration stated for each application is a general starting point. Variations in protocols, secondaries and substrates may require the Ferritin Light Chain antibody to be titered up or down for optimal performance.

Immunogen

Amino acids 38-165 of human FTL were used as the immunogen for this Ferritin Light Chain antibody.

Storage

Store the Ferritin Light Chain antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).

References (1)