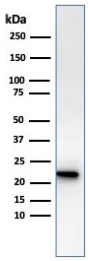
Recombinant FTL Antibody / Ferritin Light Chain [clone rFTL/1386] (V8510)

Catalog No.	Formulation	Size
V8510-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V8510-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V8510SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

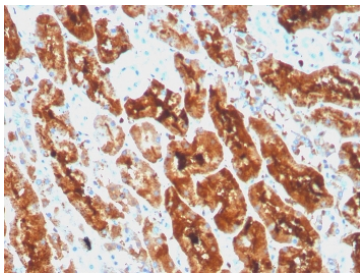
Recombinant MOUSE MONOCLONAL

Bulk quote request

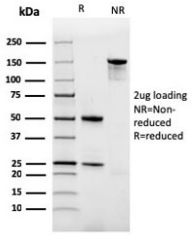
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Recombinant Mouse Monoclonal
Isotype	Mouse IgG1, kappa
Clone Name	rFTL/1386
Purity	Protein G affinity chromatography
UniProt	P02792
Localization	Cytoplasmic
Applications	Western Blot : 1-2ug/ml Immunohistochemistry (FFPE) : 1-2ug/ml for 30 minutes at RT
Limitations	This recombinant FTL antibody is available for research use only.



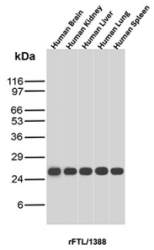
Western blot testing of human kidney lysate with recombinant FTL antibody. Predicted molecular weight: ~20 kDa.



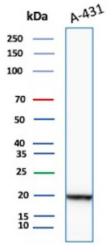
IHC staining of FFPE human kidney with recombinant FTL antibody. HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



SDS-PAGE analysis of purified, BSA-free recombinant FTL antibody as confirmation of integrity and purity.



Recombinant FTL Antibody Multi-Sample WB. Western blot analysis of human brain, human kidney, human liver, human lung, human spleen, A431, and HeLa lysates using FTL Antibody detects strong bands at approximately 24 kDa across all tested tissue and cell line samples, consistent with ferritin light chain / FTL. The broad expression profile supports the established role of this intracellular iron storage protein in ferritin complex assembly, cellular iron sequestration, oxidative stress response, and maintenance of iron homeostasis in both normal tissues and epithelial-derived tumor cell populations.



Recombinant FTL Antibody A-431 WB. Western blot analysis of A-431 cell lysate using recombinant FTL Antibody detects a strong band at approximately 20 kDa, consistent with ferritin light chain / FTL. The observed signal supports expression of this intracellular iron storage protein in epithelial-derived tumor cells and aligns with the established role of FTL in ferritin complex assembly, iron sequestration, oxidative stress regulation, and cellular iron homeostasis pathways.

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.

For highly specific ferritin light chain detection validated by large-scale protein microarray screening, see our FTL Antibody / Ferritin Complex Assembly Antibody page featuring clone FTL/1387 with WB, IHC, and protein microarray specificity validation data.

Application Notes

Optimal dilution of the recombinant FTL antibody should be determined by the researcher.

Immunogen

Recombinant full-length human FTL protein was used as the immunogen for the recombinant FTL antibody.

Storage

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