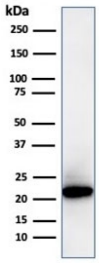
Recombinant Ferritin Light Chain Antibody / FTL [clone FTL/3872R] (V8527)

Catalog No.	Formulation	Size
V8527-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V8527-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V8527SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

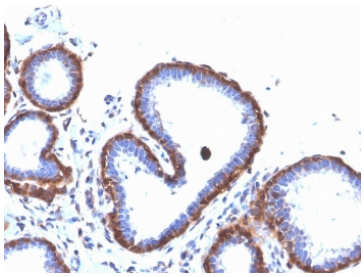
Recombinant RABBIT MONOCLONAL

Bulk quote request

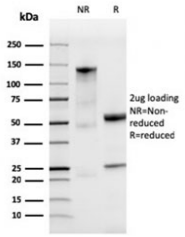
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Rabbit
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG
Clone Name	FTL/3872R
Purity	Protein A affinity chromatography
UniProt	P02792
Localization	Cytoplasmic
Applications	Western Blot : 2-4ug/ml Immunohistochemistry (FFPE) : 1-2ug/ml for 30 minutes at RT
Limitations	This recombinant Ferritin Light Chain antibody is available for research use only.



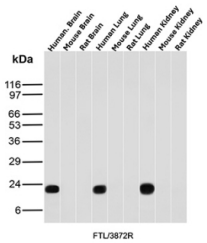
Western blot testing of human kidney lysate with recombinant Ferritin Light Chain antibody (clone FTL/3872R). Predicted molecular weight: ~20 kDa.



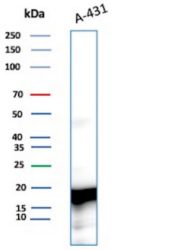
IHC staining of FFPE human breast carcinoma with recombinant Ferritin Light Chain antibody (clone FTL/3872R). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



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



Recombinant Ferritin Light Chain Antibody Multi-Tissue WB. Western blot analysis of human brain, mouse brain, rat brain, human lung, mouse lung, rat lung, human kidney, mouse kidney, and rat kidney tissue lysates using Ferritin Light Chain Antibody detects strong bands at approximately 20-24 kDa in human brain, human lung, and human kidney samples, consistent with ferritin light chain / FTL. This recombinant rabbit monoclonal antibody supports detection of an intracellular iron storage protein involved in ferritin complex assembly, iron sequestration, oxidative stress response, and cellular iron homeostasis pathways.



Recombinant Ferritin Light Chain Antibody A-431 WB. Western blot analysis of A-431 cell lysate using FTL Antibody detects a strong band at approximately 20 kDa, consistent with ferritin light chain / FTL. Additional weaker higher molecular weight signal may reflect ferritin complex-associated or partially processed ferritin species. This recombinant rabbit monoclonal antibody supports detection of an intracellular iron storage protein involved 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 Ferritin Light Chain antibody should be determined by the researcher.

Immunogen

Recombinant full-length human FTL protein was used as the immunogen for the recombinant Ferritin Light Chain

antibody.

Storage

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