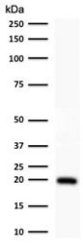
Ferritin Antibody (light chain specific) [clone FTLC1-1] (V7209)

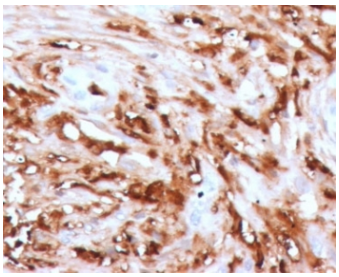
Catalog No.	Formulation	Size
V7209-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V7209-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V7209SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2b
Clone Name	FTLC1-1
Purity	Protein G affinity chromatography
Gene ID	2512
Localization	Cytoplasmic
Applications	Western Blot : 1-2ug/ml Immunohistochemistry (FFPE) : 1-2ug/ml
Limitations	This Ferritin antibody is available for research use only.



Western blot testing of human HeLa cell lysate with Ferritin antibody (clone FTLC1-1). Predicted molecular weight: ~20 kDa.



IHC staining of FFPE human pancreas with recombinant Ferritin antibody (clone FTLC1-1). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 10-20 min and allow to cool before testing.

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 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 antibody (light chain specific).

Storage

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

References (1)