

Product Datasheet

FTL Antibody / Ferritin light chain (orb386090)

Description	The FTL gene encodes the light subunit of the ferritin protein. Ferritin is the major intracellular iron storage protein in prokaryotes and eukaryotes. It is composed of 24 subunits of the heavy and light ferritin chains. Variation in ferritin subunit composition may affect the rates of iron uptake and release in different tissues. A major function of ferritin is the storage of iron in a soluble and nontoxic state. This gene has multiple pseudogenes. Although ferritin light chain has no ferroxidase activity, the light chain may be responsible for the electron transfer across the ferritin protein cage. [Wiki]
Species/Host	Mouse
Reactivity	Human
Conjugation	Unconjugated
Tested Applications	IHC-P, WB
Immunogen	Amino acids 38-165 of human FTL were used as the immunogen for this Ferritin Light Chain antibody.
Preservatives	0.2 mg/ml in 1X PBS with 0.1 mg/ml rAlbumin (US sourced) and 0.05% sodium azide
Storage	Store the Ferritin Light Chain antibody at 2-8°C (with azide) or aliquot and store at -20°C or colder (without azide).
Note	For research use only
Application notes	Optimal dilution of the Ferritin Light Chain antibody should be determined by the researcher.
Formula	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide
Isotype	Mouse IgG2a, kappa
Clonality	Monoclonal

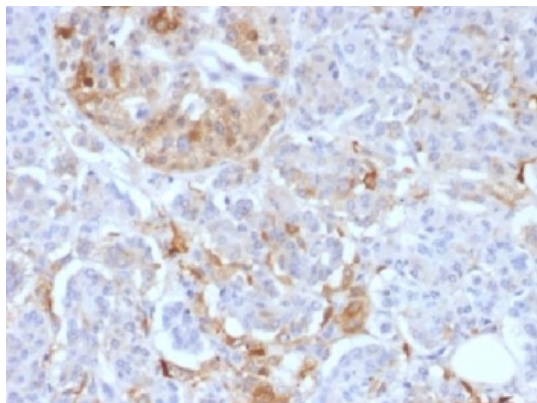
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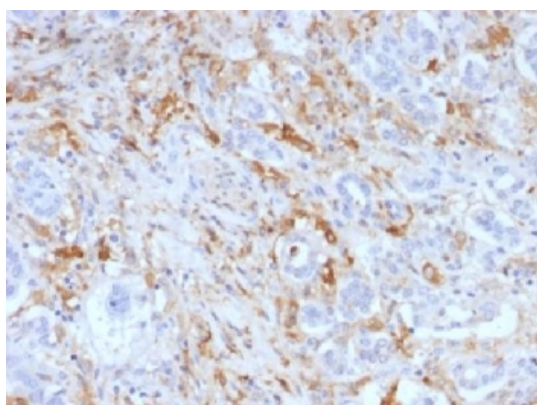
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Clone Number	FTL/1388
Antibody Type	Primary Antibody
Purity	Protein G affinity chromatography
Uniprot ID	P02792
Hazard Information	This Ferritin Light Chain antibody is available for research use only.
Dilution Range	Western blot 0.5-2ug/ml, Immunohistochemistry (FFPE): 0.1-0.2ug/ml for 30 min at RT
Expiration Date	12 months from date of receipt.



IHC testing of FFPE human pancreas with Ferritin Light Chain antibody (clone FTL/1388). Required HIER: boil tissue sections in 10mM citrate buffer, pH6, for 10-20 min.



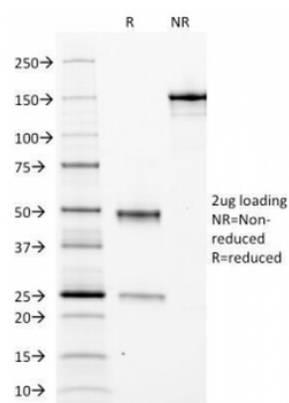
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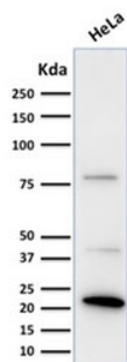
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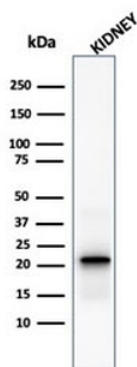
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SDS-PAGE Analysis of Purified, BSA-Free Ferritin Light Chain Antibody (clone FTL/1388). Confirmation of Integrity and Purity of the Antibody.



Western blot testing of human HeLa lysate with Ferritin Light Chain antibody. Predicted molecular weight: ~20 kDa.



Western blot testing of human kidney lysate with Ferritin Light Chain antibody. Predicted molecular weight: ~20 kDa.

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Human Protein Microarray Specificity Validation



Analysis of HuProt (TM) microarray containing more than 19,000 full-length human proteins using Ferritin Light Chain antibody. These results demonstrate the foremost specificity of the FTL/1388 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.

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