

Human FTL Antibody Pair Set

Catalog No.	E-KAB-0547	Applications	ELISA
Synonyms	Ferritin Light Chain;NBIA3		

Kit components & Storage

Title	Specifications	Storage
Human FTL Capture Antibody	1 vial, 100 µg	Store at -20°C for one year. Avoid freeze/thaw cycles.
Human FTL Detection Antibody (Biotin)	1 vial, 50 µL	Store at -20°C for one year. Avoid freeze/thaw cycles.

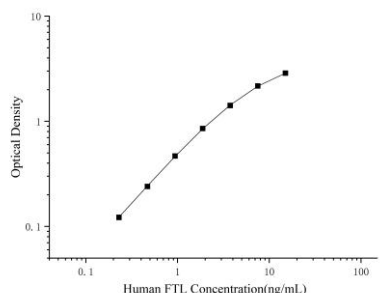
Note: Centrifuge before opening to ensure complete recovery of vial contents.

Product Information

Items		Characteristic (E-KAB-0547)	
		Human FTL Capture Antibody	Human FTL Detection Antibody (Biotin)
Immunogen Information	Immunogen	Recombinant Human FTL protien	Recombinant Human FTL protien
	Swissprot	P02792	
Product details	Reactivity	Human	Human
	Host	Rabbit	Rabbit
	Conjugation	Unconjugated	Biotin
	Concentration	0.5 mg/mL	/
	Buffer	PBS with 0.04% Proclin 300; 50% glycerol; pH 7.5	PBS with 0.04% Proclin 300; 1% protective protein; 50% glycerol; pH 7.5
	Purify	Antigen Affinity	Antigen Affinity
	Specificity	Detects Human FTL in ELISAs.	

Applications

Human FTL Sandwich ELISA Assay:

	Recommended Concentration/Dilution	Reagent	Images																						
ELISA Capture	0.5-4 µg/mL	Human FTL Capture Antibody	 <p>The graph is a log-log plot of Optical Density versus Human FTL Concentration (ng/mL). The x-axis ranges from 0.1 to 100 ng/mL, and the y-axis ranges from 0.1 to 10. The data points form a smooth, upward-sloping curve, indicating a positive correlation between the concentration of Human FTL and the resulting optical density.</p> <table border="1"> <caption>Approximate data points from the standard curve</caption> <thead> <tr> <th>Human FTL Concentration (ng/mL)</th> <th>Optical Density</th> </tr> </thead> <tbody> <tr><td>0.1</td><td>0.1</td></tr> <tr><td>0.2</td><td>0.2</td></tr> <tr><td>0.5</td><td>0.5</td></tr> <tr><td>1</td><td>1</td></tr> <tr><td>2</td><td>2</td></tr> <tr><td>5</td><td>5</td></tr> <tr><td>10</td><td>10</td></tr> <tr><td>20</td><td>20</td></tr> <tr><td>50</td><td>50</td></tr> <tr><td>100</td><td>100</td></tr> </tbody> </table>	Human FTL Concentration (ng/mL)	Optical Density	0.1	0.1	0.2	0.2	0.5	0.5	1	1	2	2	5	5	10	10	20	20	50	50	100	100
Human FTL Concentration (ng/mL)	Optical Density																								
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50	50																								
100	100																								
ELISA Detection	1:1000-1:10000	Human FTL Detection Antibody (Biotin)																							

Note: This standard curve is only for demonstration purposes. A standard curve should be generated for each assay!

Background

This 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. Defects in this light chain ferritin gene are associated with several neurodegenerative diseases and hyperferritinemia-cataract syndrome. This gene has multiple pseudogenes.