

## Human FE Antibody Pair Set

**Catalog No.** E-KAB-0027

**Applications**

ELISA

**Synonyms** FE

### Kit components & Storage

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

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

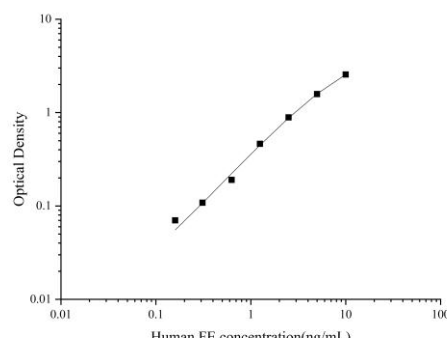
### Product Information

Items		Characteristic (E-KAB-0027)	
		Human FE Capture Antibody	Human FE Detection Antibody (Biotin)
Immunogen Information	Immunogen	Native Protein	Native Protein
	Swissprot	P02792(FTL)&P02794(FTH)	
Product details	Reactivity	Human	Human
	Host	Rabbit	Rabbit
	Conjugation	Unconjugated	Biotin
	Concentration	0.5mg/mL	/
	Buffer	PBS with 0.04% Proclin 300, 50% glycerol, pH 7.4	PBS with 0.04% Proclin 300, 1% protective protein, 50% glycerol, pH 7.4
	Purify	Antigen Affinity	Antigen Affinity
	Specificity	Detects Human FE in ELISAs.	

### For Research Use Only

## Applications

### Human FE Sandwich ELISA Assay:

	Recommended Concentration/Dilution	Reagent	Images																
ELISA Capture	0.5-4μg/mL	Human FE Capture Antibody	 <table><caption>Approximate data points from the standard curve</caption><thead><tr><th>Human FE concentration (ng/mL)</th><th>Optical Density</th></tr></thead><tbody><tr><td>0.1</td><td>0.05</td></tr><tr><td>0.2</td><td>0.1</td></tr><tr><td>0.5</td><td>0.2</td></tr><tr><td>1</td><td>0.4</td></tr><tr><td>2</td><td>0.8</td></tr><tr><td>5</td><td>1.5</td></tr><tr><td>10</td><td>2.5</td></tr></tbody></table>	Human FE concentration (ng/mL)	Optical Density	0.1	0.05	0.2	0.1	0.5	0.2	1	0.4	2	0.8	5	1.5	10	2.5
Human FE concentration (ng/mL)	Optical Density																		
0.1	0.05																		
0.2	0.1																		
0.5	0.2																		
1	0.4																		
2	0.8																		
5	1.5																		
10	2.5																		
ELISA Detection	1:1000-1:10000	Human FE Detection Antibody (Biotin)																	

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

## Background

FTH (Ferritin Heavy Chain 1, also Proliferation-Inducing Protein 15, PIG15, and PLIF) is a 183 aa cytosolic and secreted protein. Human FTH is highly conserved among species and shares 93% and 95% aa identity with mouse and rat FTH, respectively. Stores iron in a soluble, non-toxic, readily available form. Important for iron homeostasis. Iron is taken up in the ferrous form and deposited as ferric hydroxides after oxidation. Also plays a role in delivery of iron to cells. Mediates iron uptake in capsule cells of the developing kidney.

## For Research Use Only