

## Human TF Antibody Pair Set

<b>Catalog No.</b>	E-KAB-0454	<b>Applications</b>	ELISA
<b>Synonyms</b>	Beta-1 metal-binding globulin;;Serotransferrin;Siderophilin;TF;Transferrin		

### Kit components & Storage

Title	Specifications	Storage
Human TF Capture Antibody	1 vial, 100 µg	Store at -20°C for one year. Avoid freeze/thaw cycles.
Human TF 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.

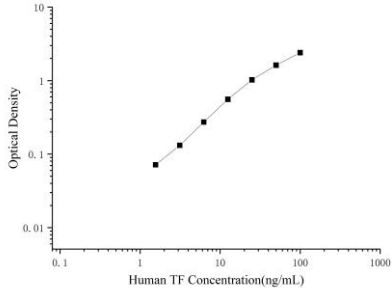
### Product Information

Items		Characteristic (E-KAB-0454)	
		Human TF Capture Antibody	Human TF Detection Antibody (Biotin)
Immunogen Information	Immunogen	Recombinant Human TF protien	Recombinant Human TF protien
	Swissprot	P02787	
Product details	Reactivity	Human	Human
	Host	Mouse	Mouse
	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 TF in ELISAs.	

### For Research Use Only

## Applications

Human TF Sandwich ELISA Assay:

	Recommended Concentration/Dilution	Reagent	Images																
ELISA Capture	0.5-4 µg/mL	Human TF Capture Antibody	 <p>The graph is a log-log plot of Optical Density versus Human TF Concentration (ng/mL). The x-axis ranges from 0.1 to 1000 ng/mL, and the y-axis ranges from 0.01 to 10. The data points form a smooth, upward-sloping curve, indicating a positive correlation between the concentration of Human TF and the resulting optical density.</p> <table border="1"> <caption>Approximate data points from the standard curve</caption> <thead> <tr> <th>Human TF Concentration (ng/mL)</th> <th>Optical Density</th> </tr> </thead> <tbody> <tr><td>1</td><td>0.08</td></tr> <tr><td>2</td><td>0.15</td></tr> <tr><td>5</td><td>0.3</td></tr> <tr><td>10</td><td>0.5</td></tr> <tr><td>20</td><td>0.8</td></tr> <tr><td>50</td><td>1.5</td></tr> <tr><td>100</td><td>2.5</td></tr> </tbody> </table>	Human TF Concentration (ng/mL)	Optical Density	1	0.08	2	0.15	5	0.3	10	0.5	20	0.8	50	1.5	100	2.5
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ELISA Detection	1:1000-1:10000	Human TF Detection Antibody (Biotin)																	

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

## Background

Transferrins are iron binding transport proteins which can bind two Fe<sup>3+</sup> ions in association with the binding of an anion, usually bicarbonate. It is responsible for the transport of iron from sites of absorption and heme degradation to those of storage and utilization. Serum transferrin may also have a further role in stimulating cell proliferation. Serves as an iron source for Neisseria species, which capture the protein and extract its iron for their own use.