

## Human TNF- $\beta$ Antibody Pair Set

<b>Catalog No.</b>	E-KAB-0712	<b>Applications</b>	ELISA
<b>Synonyms</b>	LT;LTA;TNFB;TNFSF1;TNF Superfamily;Member 1;Lymphotoxin Alpha		

### Kit components & Storage

Title	Specifications	Storage
Human TNF- $\beta$ Capture Antibody	1 vial, 100 $\mu$ g	Store at -20°C. Avoid freeze / thaw cycles.
Human TNF- $\beta$ Detection Antibody (Biotin)	1 vial, 50 $\mu$ L	Store at -20°C. Avoid freeze / thaw cycles.

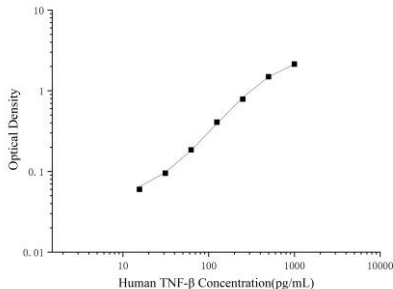
**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

### Product Information

Items		Characteristic (E-KAB-0712)	
		Human TNF- $\beta$ Capture Antibody	Human TNF- $\beta$ Detection Antibody (Biotin)
Immunogen Information	Immunogen	Recombinant Human TNF- $\beta$ protein	Recombinant Human TNF- $\beta$ protein
	Swissprot	P01374	
Product details	Reactivity	Human	Human
	Host	Goat	Goat
	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	Affinity purification	Affinity purification
	Specificity	Detects Human TNF- $\beta$ in ELISAs.	

## Applications

### Human TNF- $\beta$ Sandwich ELISA Assay:

	Recommended Concentration/Dilution	Reagent	Images
ELISA Capture	0.5-4ug/mL	Human TNF- $\beta$ Capture Antibody	
ELISA Detection	1:1000-1:10000	Human TNF- $\beta$ Detection Antibody (Biotin)	

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

## Background

LT- $\alpha$ , also known as TNF- $\beta$ , is a potent mediator of inflammatory and immune responses. It belongs to the TNF superfamily of ligands and signals through TNFR1 and TNFR2. LT- $\alpha$  is produced by activated T and B lymphocytes, and has similar activities to TNF- $\alpha$ . Like TNF- $\alpha$ , LT- $\alpha$  (TNF- $\beta$ ) is involved in the regulation of various biological processes including cell proliferation, differentiation, apoptosis, lipid metabolism, coagulation, and neurotransmission. LT- $\alpha$  is secreted as a soluble polypeptide, but can form heterotrimers with LT- $\beta$ , which effectively anchors the LT- $\alpha$  to the cell surface. LT- $\alpha$  is cytotoxic to a wide range of tumor cells.