

## Human CTLA4 Antibody Pair Set

<b>Catalog No.</b>	E-KAB-0709	<b>Applications</b>	ELISA
<b>Synonyms</b>	CD152;CTLA-4;CELIAC3;GRD4;GSE;IDDM12		

### Kit components & Storage

Title	Specifications	Storage
Human CTLA4 Capture Antibody	1 vial, 100 µg	Store at -20°C. Avoid freeze / thaw cycles.
Human CTLA4 Detection Antibody (Biotin)	1 vial, 50 µL	Store at -20°C. Avoid freeze / thaw cycles.

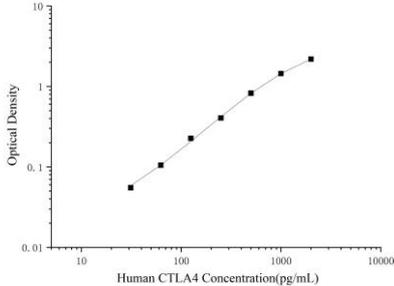
**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

### Product Information

Items		Characteristic (E-KAB-0709)	
		Human CTLA4 Capture Antibody	Human CTLA4 Detection Antibody (Biotin)
Immunogen Information	Immunogen	Recombinant Human CTLA4 protein	Recombinant Human CTLA4 protein
	Swissprot	P16410	
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 CTLA4 in ELISAs.	

## Applications

Human CTLA4 Sandwich ELISA Assay:

	Recommended Concentration/Dilution	Reagent	Images																		
ELISA Capture	0.5-4ug/mL	Human CTLA4 Capture Antibody	 <p>The graph displays a standard curve for the Human CTLA4 Sandwich ELISA Assay. The x-axis represents Human CTLA4 Concentration in pg/mL on a logarithmic scale from 10 to 10000. The y-axis represents Optical Density on a logarithmic scale from 0.01 to 10. The data points show a clear positive correlation, indicating that as the concentration of Human CTLA4 increases, the optical density also increases proportionally.</p> <table border="1"> <caption>Approximate data points from the standard curve</caption> <thead> <tr> <th>Human CTLA4 Concentration (pg/mL)</th> <th>Optical Density</th> </tr> </thead> <tbody> <tr><td>10</td><td>0.05</td></tr> <tr><td>20</td><td>0.1</td></tr> <tr><td>50</td><td>0.2</td></tr> <tr><td>100</td><td>0.4</td></tr> <tr><td>200</td><td>0.8</td></tr> <tr><td>500</td><td>1.5</td></tr> <tr><td>1000</td><td>3.0</td></tr> <tr><td>2000</td><td>6.0</td></tr> </tbody> </table>	Human CTLA4 Concentration (pg/mL)	Optical Density	10	0.05	20	0.1	50	0.2	100	0.4	200	0.8	500	1.5	1000	3.0	2000	6.0
Human CTLA4 Concentration (pg/mL)	Optical Density																				
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ELISA Detection	1:1000-1:10000	Human CTLA4 Detection Antibody (Biotin)																			

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

## Background

CTLA-4 (Cytotoxic T-Lymphocyte Antigen 4), also known as CD152, is a protein that plays an important regulatory role in the immune system. CTLA-4 is expressed on the surface of helper T cells and transmits an inhibitory signal to T cells. Mutations in the CTLA-4 gene have been associated with various autoimmune diseases, such as systemic lupus erythematosus, insulin-dependent diabetes mellitus, and other autoimmune diseases.