

Human LAB7-1 Antibody Pair Set

Catalog No.	E-KAB-0677	Applications	ELISA
Synonyms	CD80;CD28LG;CD28LG1;BB1;B7-1 Antigen;T-lymphocyte activation antigen CD80;CTLA-4 counter-receptor B7.1		

Kit components & Storage

Title	Specifications	Storage
Human LAB7-1 Capture Antibody	1 vial, 100 µg	Store at -20°C. Avoid freeze / thaw cycles.
Human LAB7-1 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.

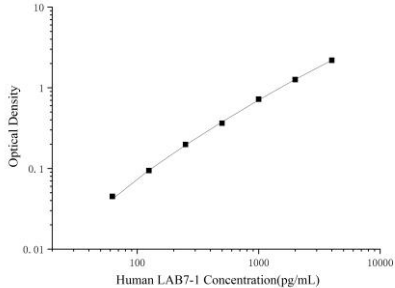
Product Information

Items		Characteristic (E-KAB-0677)	
		Human LAB7-1 Capture Antibody	Human LAB7-1 Detection Antibody (Biotin)
Immunogen Information	Immunogen	Recombinant Human LAB7-1 protein	Recombinant Human LAB7-1 protein
	Swissprot	P33681	
Product details	Reactivity	Human	Human
	Host	Mouse	Mouse
	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	Protein G	Protein G
	Specificity	Detects Human LAB7-1 in ELISAs.	

For Research Use Only

Applications

Human LAB7-1 Sandwich ELISA Assay:

	Recommended Concentration/Dilution	Reagent	Images										
ELISA Capture	0.5-4ug/mL	Human LAB7-1 Capture Antibody	 <p>The graph displays a standard curve for the Human LAB7-1 Sandwich ELISA Assay. The x-axis represents Human LAB7-1 Concentration in pg/mL on a logarithmic scale from 10 to 10,000. The y-axis represents Optical Density on a logarithmic scale from 0.01 to 10. The data points form a straight line, indicating a linear relationship between the concentration of the antigen and the resulting optical density.</p> <table border="1"> <caption>Approximate data points from the standard curve</caption> <thead> <tr> <th>Human LAB7-1 Concentration (pg/mL)</th> <th>Optical Density</th> </tr> </thead> <tbody> <tr> <td>10</td> <td>0.05</td> </tr> <tr> <td>100</td> <td>0.1</td> </tr> <tr> <td>1000</td> <td>0.5</td> </tr> <tr> <td>10000</td> <td>2.0</td> </tr> </tbody> </table>	Human LAB7-1 Concentration (pg/mL)	Optical Density	10	0.05	100	0.1	1000	0.5	10000	2.0
Human LAB7-1 Concentration (pg/mL)	Optical Density												
10	0.05												
100	0.1												
1000	0.5												
10000	2.0												
ELISA Detection	1:1000-1:10000	Human LAB7-1 Detection Antibody (Biotin)											

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

Background

CD80, also known as B7-1, B7, and BB1, is a 60 kD single chain type I glycoprotein belonging to the immunoglobulin superfamily. CD80 is expressed on activated B and T cells, macrophages, and dendritic cells. CD80 binds to CD28 and CD152 (CTLA-4). Along with CD86, CD80 plays a critical role in regulation of T cell activation. The interaction of CD80 with CD28 provides a potent costimulatory signal for T cell activation through the CD3 complex, while its interaction with CTLA-4 provides an inhibitory signal for T cell activation.