

Mouse CD48 Antibody Pair Set

Catalog No.	E-KAB-0699	Applications	ELISA
Synonyms	CD48;BLAST-1;BCM-1;SLAMF2		

Kit components & Storage

Title	Specifications	Storage
Mouse CD48 Capture Antibody	1 vial, 100 µg	Store at -20°C. Avoid freeze / thaw cycles.
Mouse CD48 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.

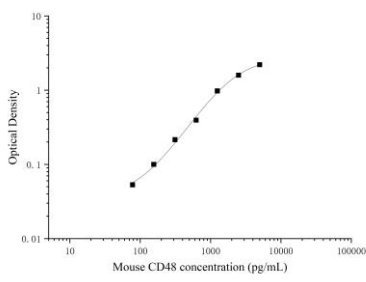
Product Information

Items		Characteristic (E-KAB-0699)	
		Mouse CD48 Capture Antibody	Mouse CD48 Detection Antibody (Biotin)
Immunogen Information	Immunogen	Recombinant Mouse CD48 protein	Recombinant Mouse CD48 protein
	Swissprot	P18181	
Product details	Reactivity	Mouse	Mouse
	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	Affinity purification	Affinity purification
	Specificity	Detects Mouse CD48 in ELISAs.	

For Research Use Only

Applications

Mouse CD48 Sandwich ELISA Assay

	Recommended Concentration/Dilution	Reagent	Images																				
ELISA Capture	0.5-4ug/mL	Mouse CD48 Capture Antibody	 <p>The graph is a log-log plot of Optical Density versus Mouse CD48 concentration (pg/mL). The x-axis ranges from 10 to 100,000 pg/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 concentration and optical density.</p> <table border="1"> <caption>Approximate data points from the standard curve</caption> <thead> <tr> <th>Mouse CD48 concentration (pg/mL)</th> <th>Optical Density</th> </tr> </thead> <tbody> <tr><td>100</td><td>0.05</td></tr> <tr><td>200</td><td>0.1</td></tr> <tr><td>500</td><td>0.2</td></tr> <tr><td>1000</td><td>0.4</td></tr> <tr><td>2000</td><td>0.8</td></tr> <tr><td>5000</td><td>1.5</td></tr> <tr><td>10000</td><td>2.5</td></tr> <tr><td>20000</td><td>4.0</td></tr> <tr><td>50000</td><td>6.0</td></tr> </tbody> </table>	Mouse CD48 concentration (pg/mL)	Optical Density	100	0.05	200	0.1	500	0.2	1000	0.4	2000	0.8	5000	1.5	10000	2.5	20000	4.0	50000	6.0
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ELISA Detection	1:1000-1:10000	Mouse CD48 Detection Antibody (Biotin)																					

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

Background

As a glycosylated phosphatidylinositol (GPI) -anchored cell surface glycoprotein, CD48 regulates immune cell function and activation through its N-terminal immunoglobulin domain interacting with cell surface receptors including 2B4/CD244 or CD2. Participates in T-cell signaling transduction by associating with CD2 and efficiently bringing the Src family protein kinase LCK and LAT to the TCR/CD3 complex. In turn, promotes LCK phosphorylation and subsequent activation. Participates in T-cell signaling transduction by associating with CD2 and efficiently bringing the Src family protein kinase LCK and LAT to the TCR/CD3 complex. In turn, promotes LCK phosphorylation and subsequent activation.