

## Mouse CD117/c-kit Antibody Pair Set

<b>Catalog No.</b>	E-KAB-0698	<b>Applications</b>	ELISA
<b>Synonyms</b>	KIT proto-oncogene;receptor tyrosine kinase;PBT;SCFR;C-Kit;CD117;MASTC		

### Kit components & Storage

Title	Specifications	Storage
Mouse CD117/c-kit Capture Antibody	1 vial, 100 µg	Store at -20°C. Avoid freeze / thaw cycles.
Mouse CD117/c-kit Detection Antibody (Biotin)	1 vial, 50 µL	Store at -20°C. Avoid freeze / thaw cycles.

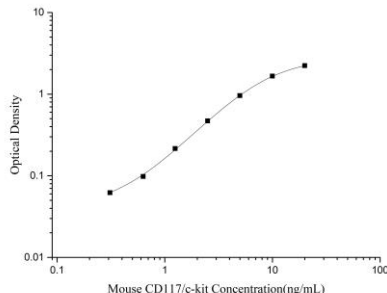
**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

### Product Information

Items		Characteristic (E-KAB-0698)	
		Mouse CD117/c-kit Capture Antibody	Mouse CD117/c-kit Detection Antibody (Biotin)
Immunogen Information	Immunogen	Recombinant Mouse CD117 protein	Recombinant Mouse CD117 protein
	Swissprot	P05532	
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 CD117 in ELISAs.	

## Applications

Mouse CD117 Sandwich ELISA Assay:

	Recommended Concentration/Dilution	Reagent	Images																				
ELISA Capture	0.5-4ug/mL	Mouse CD117/c-kit Capture Antibody	 <p>The graph is a log-log plot of Optical Density versus Mouse CD117/c-kit Concentration (ng/mL). The x-axis ranges from 0.1 to 100 ng/mL, and the y-axis ranges from 0.01 to 10. The data points show a clear upward trend, indicating that as the concentration of the antigen increases, the optical density also increases. The curve is approximately linear on this log-log scale, suggesting a power-law relationship between the two variables.</p> <table border="1"> <caption>Approximate data points from the standard curve</caption> <thead> <tr> <th>Mouse CD117/c-kit Concentration (ng/mL)</th> <th>Optical Density</th> </tr> </thead> <tbody> <tr> <td>0.1</td> <td>0.05</td> </tr> <tr> <td>0.2</td> <td>0.1</td> </tr> <tr> <td>0.5</td> <td>0.2</td> </tr> <tr> <td>1</td> <td>0.4</td> </tr> <tr> <td>2</td> <td>0.8</td> </tr> <tr> <td>5</td> <td>1.5</td> </tr> <tr> <td>10</td> <td>2.5</td> </tr> <tr> <td>20</td> <td>4.0</td> </tr> <tr> <td>50</td> <td>6.0</td> </tr> </tbody> </table>	Mouse CD117/c-kit Concentration (ng/mL)	Optical Density	0.1	0.05	0.2	0.1	0.5	0.2	1	0.4	2	0.8	5	1.5	10	2.5	20	4.0	50	6.0
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ELISA Detection	1:1000-1:10000	Mouse CD117/c-kit Detection Antibody (Biotin)																					

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

## Background

CD117 is a 145 kD immunoglobulin superfamily member also known as c-Kit and stem cell factor receptor (SCFR). It is a transmembrane tyrosine-kinase receptor that binds the c-Kit ligand (also known as steel factor, stem cell factor, and mast cell growth factor). CD117 is expressed on hematopoietic stem cells (including multipotent hematopoietic stem cells, progenitors committed to myeloid and/or erythroid lineages, and T and B cell precursors), mast cells, and acute myeloid leukemia (AML) cells. CD117 interaction with its ligand is critical for the development of hematopoietic stem cells.