

Mouse CXCL2 Antibody Pair Set

Catalog No.	E-KAB-0319	Applications	ELISA
Synonyms	CXCL2, MIP-2a, GRO2, SCYB2, GROb, MGSA-B, CINC2a		

Kit components & Storage

Title	Specifications	Storage
Mouse CXCL2 Capture Antibody	1 vial, 100 µg	Store at -20°C for one year. Avoid freeze / thaw cycles.
Mouse CXCL2 Detection Antibody (Biotin)	1 vial, 50 µL	Store at -20°C for one year. Avoid freeze / thaw cycles.

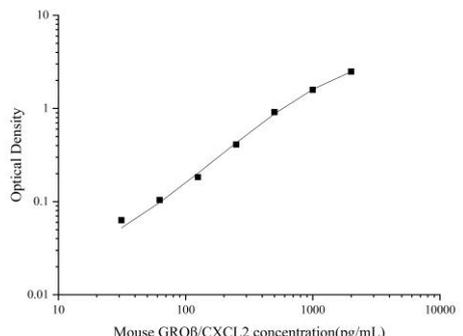
Note: Centrifuge before opening to ensure complete recovery of vial contents.

Product Information

Items		Characteristic (E-KAB-0319)	
		Mouse CXCL2 Capture Antibody	Mouse CXCL2 Detection Antibody (Biotin)
Immunogen Information	Immunogen	Recombinant Mouse CXCL2 protein	Recombinant Mouse CXCL2 protein
	Swissprot	P10889	
Product details	Reactivity	Mouse	Mouse
	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	Antigen Affinity	Antigen Affinity
	Specificity	Detects Mouse CXCL2 in ELISAs.	

Applications

Mouse CXCL2 Sandwich ELISA Assay:

	Recommended Concentration/Dilution	Reagent	Images														
ELISA Capture	0.5-4µg/mL	Mouse CXCL2 Capture Antibody	 <p>The graph is a log-log plot. The y-axis is labeled 'Optical Density' and ranges from 0.01 to 10. The x-axis is labeled 'Mouse GROβ/CXCL2 concentration(pg/mL)' and ranges from 10 to 10000. Six data points are plotted, showing a clear upward trend. A smooth curve is drawn through the points.</p> <table border="1"> <caption>Approximate data points from the standard curve</caption> <thead> <tr> <th>Mouse GROβ/CXCL2 concentration (pg/mL)</th> <th>Optical Density</th> </tr> </thead> <tbody> <tr> <td>20</td> <td>0.05</td> </tr> <tr> <td>50</td> <td>0.1</td> </tr> <tr> <td>100</td> <td>0.2</td> </tr> <tr> <td>200</td> <td>0.4</td> </tr> <tr> <td>500</td> <td>0.8</td> </tr> <tr> <td>1000</td> <td>1.5</td> </tr> </tbody> </table>	Mouse GROβ/CXCL2 concentration (pg/mL)	Optical Density	20	0.05	50	0.1	100	0.2	200	0.4	500	0.8	1000	1.5
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ELISA Detection	1:1000-1:10000	Mouse CXCL2 Detection Antibody (Biotin)															

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

Background

CXCL2/GRO beta, also called MIP-2 in mouse and CINC-3 in rat, is a member of the CXC chemokine family. Human CXCL2/GRO beta is 107 amino acids (aa) in length with a predicted molecular weight of 11 kDa. The mouse and rat orthologs share 70% and 71% aa sequence identity with the human protein, respectively. N-terminal aa 1-4 of CXCL2/GRO beta can be post-translationally cleaved which confers enhanced hematopoietic bioactivity. CXCL2/GRO beta is produced by a variety of cell types including monocytes and macrophages at sites of inflammation and is chemotactic for granulocytes, including neutrophils.