

Mouse GM-CSF Antibody Pair Set

Catalog No. E-KAB-0322

Applications

ELISA

Synonyms GMCSF, CSF2

Kit components & Storage

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

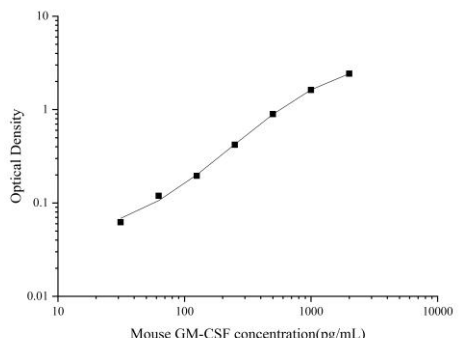
Note: Centrifuge before opening to ensure complete recovery of vial contents.

Product Information

Items		Characteristic (E-KAB-0322)	
		Mouse GM-CSF Capture Antibody	Mouse GM-CSF Detection Antibody (Biotin)
Immunogen Information	Immunogen	Recombinant Mouse GM-CSF protein	Recombinant Mouse GM-CSF protein
	Swissprot	P01587	
Product details	Reactivity	Mouse	Mouse
	Host	Rat	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	Protein A or G	Antigen Affinity
	Specificity	Detects Mouse GM-CSF in ELISAs.	

Applications

Mouse GM-CSF Sandwich ELISA Assay:

	Recommended Concentration/Dilution	Reagent	Images														
ELISA Capture	0.5-4µg/mL	Mouse GM-CSF Capture Antibody	 <p>The graph is a log-log plot of Optical Density versus Mouse GM-CSF concentration (pg/mL). The y-axis (Optical Density) ranges from 0.01 to 10, and the x-axis (concentration) ranges from 10 to 10000. Six data points are plotted, showing a clear upward trend that is approximately linear on this scale.</p> <table border="1"> <caption>Approximate data points from the standard curve</caption> <thead> <tr> <th>Mouse GM-CSF 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 GM-CSF 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 GM-CSF Detection Antibody (Biotin)															

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

Background

CSF2 (Colony Stimulating Factor 2) is a Protein Coding gene. Diseases associated with CSF2 include Mucositis and Candida Glabrata. Among its related pathways are RET signaling and IL-15 Signaling Pathways and their Primary Biological Effects in Different Immune Cell Types. GO annotations related to this gene include cytokine activity and granulocyte macrophage colony-stimulating factor receptor binding. The protein encoded by this gene is a cytokine that controls the production, differentiation, and function of granulocytes and macrophages. The active form of the protein is found extracellularly as a homodimer. This gene has been localized to a cluster of related genes at chromosome region 5q31, which is known to be associated with interstitial deletions in the 5q- syndrome and acute myelogenous leukemia. Other genes in the cluster include those encoding interleukins 4, 5, and 13.