

Mouse CHEM Antibody Pair Set

Catalog No.	E-KAB-0295	Applications	ELISA
Synonyms	RARRES2, TIG2, Retinoic acid receptor responder protein 2, Tazarotene-induced gene 2 protein		

Kit components & Storage

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

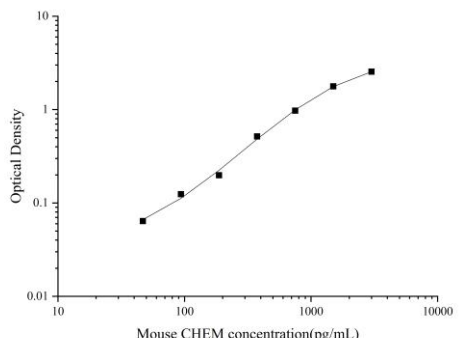
Note: Centrifuge before opening to ensure complete recovery of vial contents.

Product Information

Items		Characteristic (E-KAB-0295)	
		Mouse CHEM Capture Antibody	Mouse CHEM Detection Antibody (Biotin)
Immunogen Information	Immunogen	Recombinant Mouse CHEM protein	Recombinant Mouse CHEM protein
	Swissprot	Q9DD06	
Product details	Reactivity	Mouse	Mouse
	Host	Rat	Rat
	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	Protein A or G
	Specificity	Detects Mouse CHEM in ELISAs.	

Applications

Mouse CHEM Sandwich ELISA Assay:

	Recommended Concentration/Dilution	Reagent	Images																
ELISA Capture	0.5-4µg/mL	Mouse CHEM Capture Antibody	 <p>The graph is a log-log plot of Optical Density versus Mouse CHEM concentration (pg/mL). The y-axis (Optical Density) ranges from 0.01 to 10, and the x-axis (Mouse CHEM concentration) ranges from 10 to 10000. 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 CHEM concentration (pg/mL)</th> <th>Optical Density</th> </tr> </thead> <tbody> <tr> <td>50</td> <td>0.05</td> </tr> <tr> <td>100</td> <td>0.1</td> </tr> <tr> <td>200</td> <td>0.2</td> </tr> <tr> <td>500</td> <td>0.5</td> </tr> <tr> <td>1000</td> <td>1.0</td> </tr> <tr> <td>2000</td> <td>2.0</td> </tr> <tr> <td>5000</td> <td>5.0</td> </tr> </tbody> </table>	Mouse CHEM concentration (pg/mL)	Optical Density	50	0.05	100	0.1	200	0.2	500	0.5	1000	1.0	2000	2.0	5000	5.0
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ELISA Detection	1:1000-1:10000	Mouse CHEM Detection Antibody (Biotin)																	

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

Background

Chemerin, also known as Tazarotene-induced Gene 2, (Tig-2), is a member of the Cystatin superfamily. Chemerin is synthesized as a 163 aa precursor that contains a hydrophobic 20 aa N-terminal sequence, an intervening 137 aa Cystatin fold-containing domain, and a six aa C-terminal prosegment. It is activated by proteases of the coagulation, fibrinolytic, and inflammatory cascades. Chemerin is a chemoattractant for cells bearing the Chem R23 receptor, including plasmacytoid dendritic cells and tissue macrophages.