

Rat BMG/ β 2-MG Antibody Pair Set

Catalog No.	E-KAB-0097	Applications	ELISA
Synonyms	B2MG, B2M		

Kit components & Storage

Title	Specifications	Storage
Rat BMG/ β 2-MG Capture Antibody	1 vial, 100 μ g	Store at -20°C for one year. Avoid freeze / thaw cycles.
Rat BMG/ β 2-MG Detection Antibody (Biotin)	1 vial, 50 μ L	Store at -20°C for one year. Avoid freeze / thaw cycles.

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

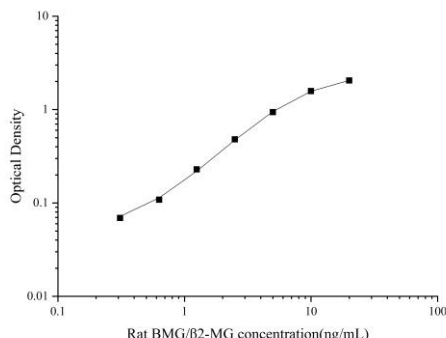
Product Information

Items		Characteristic (E-KAB-0097)	
		Rat BMG/ β 2-MG Capture Antibody	Rat BMG/ β 2-MG Detection Antibody (Biotin)
Immunogen Information	Immunogen	Recombinant Rat BMG/ β 2-MG protein	Recombinant Rat BMG/ β 2-MG protein
	Swissprot	P07151	
Product details	Reactivity	Rat	Rat
	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	Protein A & Antigen Affinity	Protein A & Antigen Affinity
	Specificity	Detects Rat BMG/ β 2-MG in ELISAs.	

For Research Use Only

Applications

Rat BMG/ β 2-MG Sandwich ELISA Assay:

	Recommended Concentration/Dilution	Reagent	Images																		
ELISA Capture	0.5-4 μ g/mL	Rat BMG/ β 2-MG Capture Antibody	 <p>The graph is a log-log plot of Optical Density versus Rat BMG/β2-MG concentration (ng/mL). The y-axis (Optical Density) ranges from 0.01 to 10, and the x-axis (Rat BMG/β2-MG concentration) ranges from 0.1 to 100. The data points show a clear upward trend, indicating that as the concentration of the antigen increases, the optical density also increases.</p> <table border="1"> <caption>Approximate data points from the standard curve</caption> <thead> <tr> <th>Rat BMG/β2-MG 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>0.7</td> </tr> <tr> <td>5</td> <td>1.2</td> </tr> <tr> <td>10</td> <td>1.8</td> </tr> <tr> <td>20</td> <td>2.5</td> </tr> </tbody> </table>	Rat BMG/ β 2-MG concentration (ng/mL)	Optical Density	0.1	0.05	0.2	0.1	0.5	0.2	1	0.4	2	0.7	5	1.2	10	1.8	20	2.5
Rat BMG/ β 2-MG concentration (ng/mL)	Optical Density																				
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ELISA Detection	1:1000-1:10000	Rat BMG/ β 2-MG Detection Antibody (Biotin)																			

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

Background

Beta-2-microglobulin (B2M) is a component of MHC class I molecules, which are present on the surface of nearly all nucleated cells. It can be found in body fluids under physiologic conditions as a result of shedding from cell surfaces or intracellular release. B2M has various biological functions, including antigen presentation. Investigations reveal that increased synthesis and release of B2M are present in several malignant diseases.