

## Human BMG/β2-MG Antibody Pair Set

Catalog No. E-KAB-0122

Applications

ELISA

Synonyms B2MG;B2M

### Kit components & Storage

Title	Specifications	Storage
Human BMG/β2-MG Capture Antibody	1 vial, 100 μg	Store at -20°C for one year. Avoid freeze / thaw cycles.
Human BMG/β2-MG 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.

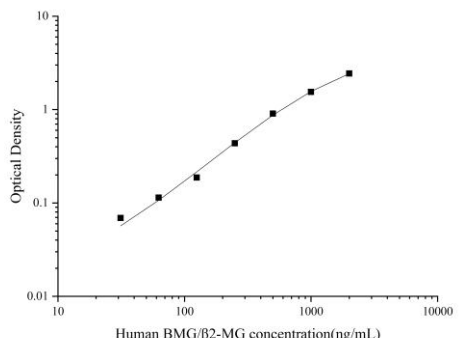
### Product Information

Items		Characteristic (E-KAB-0122)	
		Human BMG/β2-MG Capture Antibody	Human BMG/β2-MG Detection Antibody (Biotin)
Immunogen Information	Immunogen	Native Protein	Native Protein
	Swissprot	P61769	
Product details	Reactivity	Human	Human
	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	Antigen Affinity	Antigen Affinity
	Specificity	Detects Human BMG/β2-MG in ELISAs.	

**For Research Use Only**

## Applications

### Human BMG/β2-MG Sandwich ELISA Assay:

	Recommended Concentration/Dilution	Reagent	Images														
ELISA Capture	0.5-4μg/mL	Human BMG/β2-MG 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 'Human BMG/β2-MG concentration(ng/mL)' and ranges from 10 to 10000. Six data points are plotted, showing a clear upward trend. A smooth curve is drawn through these points.</p> <table border="1"> <caption>Approximate data points from the standard curve</caption> <thead> <tr> <th>Human BMG/β2-MG concentration (ng/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>0.5</td> </tr> <tr> <td>500</td> <td>1.0</td> </tr> <tr> <td>1000</td> <td>2.0</td> </tr> </tbody> </table>	Human BMG/β2-MG concentration (ng/mL)	Optical Density	20	0.05	50	0.1	100	0.2	200	0.5	500	1.0	1000	2.0
Human BMG/β2-MG concentration (ng/mL)	Optical Density																
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50	0.1																
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500	1.0																
1000	2.0																
ELISA Detection	1:1000-1:10000	Human BMG/β2-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.