

Human PG I Antibody Pair Set

Catalog No. E-KAB-0284

Applications

ELISA

Synonyms Pepsinogen I

Kit components & Storage

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

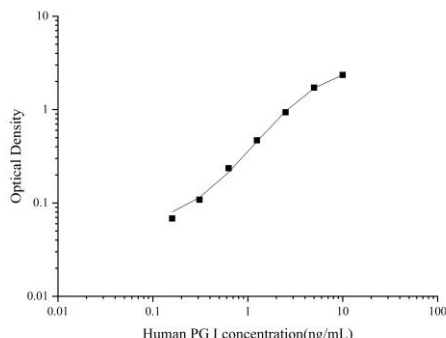
Note: Centrifuge before opening to ensure complete recovery of vial contents.

Product Information

Items		Characteristic (E-KAB-0284)	
		Human PG I Capture Antibody	Human PG I Detection Antibody (Biotin)
Immunogen Information	Immunogen	Recombinant Human PG I protein	Recombinant Human PG I protein
	Swissprot	/	
Product details	Reactivity	Human	Human
	Host	Mouse	Mouse
	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 Human PG I in ELISAs.	

Applications

Human PG I Sandwich ELISA Assay:

	Recommended Concentration/Dilution	Reagent	Images																
ELISA Capture	0.5-4µg/mL	Human PG I Capture Antibody	 <p>The graph is a log-log plot. The x-axis is labeled 'Human PG I concentration(ng/mL)' and ranges from 0.01 to 100. The y-axis is labeled 'Optical Density' and ranges from 0.01 to 10. The data points form a smooth, upward-sloping curve, indicating a positive correlation between the concentration of Human PG I and the optical density.</p> <table border="1"> <caption>Approximate data points from the standard curve</caption> <thead> <tr> <th>Human PG I 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> </tbody> </table>	Human PG I 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
Human PG I concentration (ng/mL)	Optical Density																		
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ELISA Detection	1:1000-1:10000	Human PG I Detection Antibody (Biotin)																	

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

Background

Pepsinogen I belongs to the peptidase A1 family. It shows particularly broad specificity and although bonds involving phenylalanine and leucine are preferred, many others are also cleaved to some extent. The gene encodes a 388 amino acid protein with a 15 amino acid signal peptide and 46 amino acid propeptide. This antibody can recognize PGA3(pepsinogen 3), PGA4(pepsinogen 4), PGA5(pepsinogen 5).