

## Human IgA1 Antibody Pair Set

**Catalog No.** E-KAB-0512

**Applications**

ELISA

**Synonyms** IgA1;ImmunoglobulinA

### Kit components & Storage

Title	Specifications	Storage
Human IgA1 Capture Antibody	1 vial, 100 µg	Store at -20°C for one year. Avoid freeze/thaw cycles.
Human IgA1 Detection Antibody (Biotin)	1 vial, 50 µL	Store at -20°C for one year. Avoid freeze/thaw cycles.

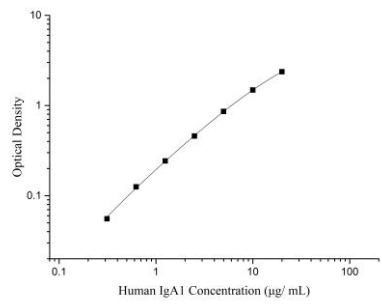
**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

### Product Information

Items		Characteristic (E-KAB-0512)	
		Human IgA1 Capture Antibody	Human IgA1 Detection Antibody (Biotin)
Immunogen Information	Immunogen	Natural Human IgA1 protien	Natural Human IgA1 protien
	Swissprot	/	
Product details	Reactivity	Human	Human
	Host	Mouse	Mouse
	Conjugation	Unconjugated	Biotin
	Concentration	0.5 mg/mL	/
	Buffer	PBS with 0.04% Proclin 300; 50% glycerol; pH 7.5	PBS with 0.04% Proclin 300; 1% protective protein; 50% glycerol; pH 7.5
	Purify	Protein A or G	Protein A or G
	Specificity	Detects Human IgA1 in ELISAs.	

## Applications

Human IgA1 Sandwich ELISA Assay:

	Recommended Concentration/Dilution	Reagent	Images																
ELISA Capture	0.5-4 µg/mL	Human IgA1 Capture Antibody	 <p>The graph displays a standard curve for the Human IgA1 Sandwich ELISA Assay. The x-axis represents Human IgA1 Concentration in µg/mL on a logarithmic scale from 0.1 to 100. The y-axis represents Optical Density on a logarithmic scale from 0.1 to 10. The data points form a straight line, indicating a linear relationship between the concentration of Human IgA1 and the resulting optical density.</p> <table border="1"> <caption>Approximate data points from the standard curve</caption> <thead> <tr> <th>Human IgA1 Concentration (µg/mL)</th> <th>Optical Density</th> </tr> </thead> <tbody> <tr><td>0.5</td><td>0.05</td></tr> <tr><td>1</td><td>0.1</td></tr> <tr><td>2</td><td>0.2</td></tr> <tr><td>5</td><td>0.5</td></tr> <tr><td>10</td><td>1.0</td></tr> <tr><td>20</td><td>2.0</td></tr> <tr><td>50</td><td>5.0</td></tr> </tbody> </table>	Human IgA1 Concentration (µg/mL)	Optical Density	0.5	0.05	1	0.1	2	0.2	5	0.5	10	1.0	20	2.0	50	5.0
Human IgA1 Concentration (µg/mL)	Optical Density																		
0.5	0.05																		
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2	0.2																		
5	0.5																		
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20	2.0																		
50	5.0																		
ELISA Detection	1:1000-1:10000	Human IgA1 Detection Antibody (Biotin)																	

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

## Background

Ig alpha is the major immunoglobulin class in body secretions. It may serve both to defend against local infection and to prevent access of foreign antigens to the general immunologic system.