

Human IgE Antibody Pair Set

Catalog No. E-KAB-0143

Applications

ELISA

Synonyms IgE

Kit components & Storage

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

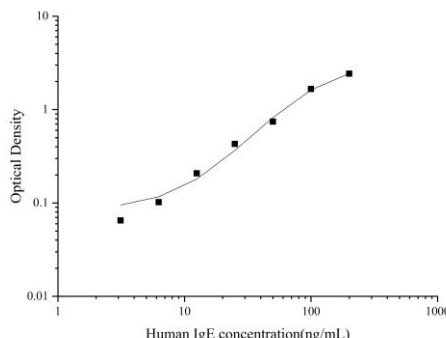
Note: Centrifuge before opening to ensure complete recovery of vial contents.

Product Information

Items		Characteristic (E-KAB-0143)	
		Human IgE Capture Antibody	Human IgE Detection Antibody (Biotin)
Immunogen Information	Immunogen	Native Protein	Native Protein
	Swissprot	P01854	
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 IgE in ELISAs.	

Applications

Human IgE Sandwich ELISA Assay:

	Recommended Concentration/Dilution	Reagent	Images										
ELISA Capture	0.5-4µg/mL	Human IgE Capture Antibody	 <p>The graph is a log-log plot of Optical Density versus Human IgE concentration (ng/mL). The x-axis ranges from 1 to 1000 ng/mL, and the y-axis ranges from 0.01 to 10. The data points show a clear upward trend, indicating that as the concentration of Human IgE increases, the optical density also increases. The curve is smooth and passes through several data points.</p> <table border="1"> <caption>Approximate data points from the standard curve</caption> <thead> <tr> <th>Human IgE concentration (ng/mL)</th> <th>Optical Density</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>0.05</td> </tr> <tr> <td>10</td> <td>0.2</td> </tr> <tr> <td>100</td> <td>1.0</td> </tr> <tr> <td>1000</td> <td>5.0</td> </tr> </tbody> </table>	Human IgE concentration (ng/mL)	Optical Density	1	0.05	10	0.2	100	1.0	1000	5.0
Human IgE concentration (ng/mL)	Optical Density												
1	0.05												
10	0.2												
100	1.0												
1000	5.0												
ELISA Detection	1:1000-1:10000	Human IgE Detection Antibody (Biotin)											

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

Background

IgE is one of the five classes of immunoglobulins found in mammals. Monomers consist of two heavy (epsilon) chains with 4 Ig-like constant domains, and two light chains. IgE plays an essential role in type I hypersensitivity (allergic responses such as hay fever, asthma, hives, anaphylactic shock) by binding to Fc receptors on basophils and mast cells. Crosslinking of IgE bound to Fc receptors induces degranulation of mast cells and basophils that promote allergic manifestations. IgE is also functionally important for immunity against parasites.