

Rat IL-1 α Antibody Pair Set

Catalog No.	E-KAB-0367	Applications	ELISA
Synonyms	IL1A, IL1-A, IL1, IL1F1, Preinterleukin 1 Alpha, Hematopoietin-1, Pro-Interleukin-1-Alpha		

Kit components & Storage

Title	Specifications	Storage
Rat IL-1 α Capture Antibody	1 vial, 100 μ g	Store at -20 $^{\circ}$ C for one year. Avoid freeze / thaw cycles.
Rat IL-1 α Detection Antibody (Biotin)	1 vial, 50 μ L	Store at -20 $^{\circ}$ C for one year. Avoid freeze / thaw cycles.

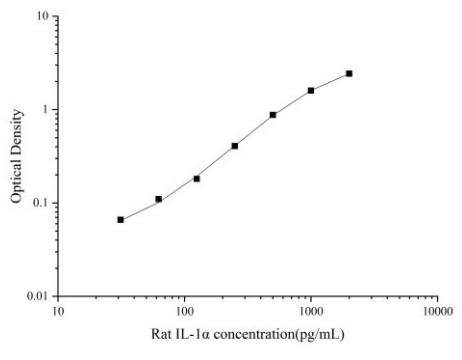
Note: Centrifuge before opening to ensure complete recovery of vial contents.

Product Information

Items		Characteristic (E-KAB-0367)	
		Rat IL-1 α Capture Antibody	Rat IL-1 α Detection Antibody (Biotin)
Immunogen Information	Immunogen	Recombinant Rat IL-1 α protein	Recombinant Rat IL-1 α protein
	Swissprot	P16598	
Product details	Reactivity	Rat	Rat
	Host	Mouse	Goat
	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	Antigen Affinity
	Specificity	Detects Rat IL-1 α in ELISAs.	

Applications

Rat IL-1 α Sandwich ELISA Assay:

	Recommended Concentration/Dilution	Reagent	Images										
ELISA Capture	0.5-4 μ g/mL	Rat IL-1 α Capture Antibody	 <table border="1"> <caption>Approximate data points from the standard curve</caption> <thead> <tr> <th>Rat IL-1α concentration (pg/mL)</th> <th>Optical Density</th> </tr> </thead> <tbody> <tr> <td>10</td> <td>0.05</td> </tr> <tr> <td>100</td> <td>0.2</td> </tr> <tr> <td>1000</td> <td>1.0</td> </tr> <tr> <td>10000</td> <td>5.0</td> </tr> </tbody> </table>	Rat IL-1 α concentration (pg/mL)	Optical Density	10	0.05	100	0.2	1000	1.0	10000	5.0
Rat IL-1 α concentration (pg/mL)	Optical Density												
10	0.05												
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1000	1.0												
10000	5.0												
ELISA Detection	1:1000-1:10000	Rat IL-1 α Detection Antibody (Biotin)											

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

Background

The protein encoded by this gene is a member of the interleukin 1 cytokine family. This cytokine is a pleiotropic cytokine involved in various immune responses, inflammatory processes, and hematopoiesis. This cytokine is produced by monocytes and macrophages as a proprotein, which is proteolytically processed and released in response to cell injury, and thus induces apoptosis. This gene and eight other interleukin 1 family genes form a cytokine gene cluster on chromosome 2. It has been suggested that the polymorphism of these genes is associated with rheumatoid arthritis and Alzheimer's disease