

Rat LIX Antibody Pair Set

Catalog No. E-KAB-0362

Applications

ELISA

Synonyms LIX

Kit components & Storage

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

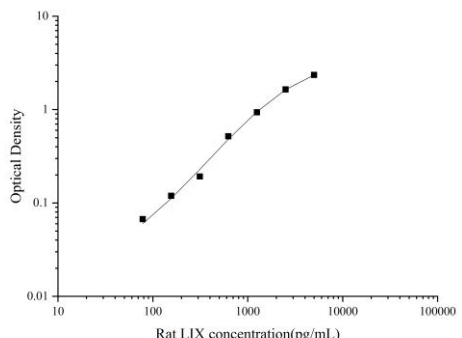
Note: Centrifuge before opening to ensure complete recovery of vial contents.

Product Information

Items		Characteristic (E-KAB-0362)	
		Rat LIX Capture Antibody	Rat LIX Detection Antibody (Biotin)
Immunogen Information	Immunogen	Recombinant Rat LIX protein	Recombinant Rat LIX protein
	Swissprot	/	
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 LIX in ELISAs.	

Applications

Rat LIX Sandwich ELISA Assay:

	Recommended Concentration/Dilution	Reagent	Images																
ELISA Capture	0.5-4µg/mL	Rat LIX Capture Antibody	 <p>The graph is a log-log plot of Optical Density versus Rat LIX concentration (pg/mL). The y-axis (Optical Density) ranges from 0.01 to 10, and the x-axis (Rat LIX concentration) ranges from 10 to 100,000. The data points form a nearly straight line, indicating a power-law relationship between concentration and optical density.</p> <table border="1"> <caption>Approximate data points from the standard curve</caption> <thead> <tr> <th>Rat LIX concentration (pg/mL)</th> <th>Optical Density</th> </tr> </thead> <tbody> <tr> <td>100</td> <td>0.05</td> </tr> <tr> <td>200</td> <td>0.1</td> </tr> <tr> <td>500</td> <td>0.2</td> </tr> <tr> <td>1000</td> <td>0.4</td> </tr> <tr> <td>2000</td> <td>0.8</td> </tr> <tr> <td>5000</td> <td>1.5</td> </tr> <tr> <td>10000</td> <td>2.5</td> </tr> </tbody> </table>	Rat LIX concentration (pg/mL)	Optical Density	100	0.05	200	0.1	500	0.2	1000	0.4	2000	0.8	5000	1.5	10000	2.5
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ELISA Detection	1:1000-1:10000	Rat LIX Detection Antibody (Biotin)																	

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

Background

LPS-induced CXC chemokine (LIX) is a murine chemokine similar to two human chemokines, ENA-78 (CXCL5) and GCP-2 (CXCL6). Mouse LIX can be produced by many immune cells, such as macrophages, eosinophils, as well as non-immune cells including mesothelial cells, and fibroblasts. Increased serum LIX has been observed in obesity and insulin resistance in mice and humans and is associated with complications of diabetes including nephropathy and atherosclerosis. It is mainly produced when induced by LPS, IL-17 and/or TNF- α . According to the previous studies, cancer cell autonomous secretion of LIX is sufficient to drive infiltration of mature, protumorigenic neutrophils in a mouse model of non-small cell lung cancer (NSCLC).