

Rat HPX Antibody Pair Set

Catalog No.	E-KAB-0392	Applications	ELISA
Synonyms	HPX, HX, hemopexin, Beta-1B-glycoprotein		

Kit components & Storage

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

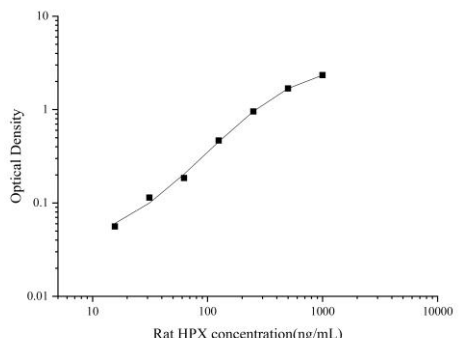
Note: Centrifuge before opening to ensure complete recovery of vial contents.

Product Information

Items		Characteristic (E-KAB-0392)	
		Rat HPX Capture Antibody	Rat HPX Detection Antibody (Biotin)
Immunogen Information	Immunogen	Recombinant Rat HPX protein	Recombinant Rat HPX protein
	Swissprot	P20059	
Product details	Reactivity	Rat	Rat
	Host	Rabbit	Rabbit
	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	Protein A & Antigen Affinity
	Specificity	Detects Rat HPX in ELISAs.	

Applications

Rat HPX Sandwich ELISA Assay:

	Recommended Concentration/Dilution	Reagent	Images																
ELISA Capture	0.5-4μg/mL	Rat HPX Capture Antibody	 <p>The graph is a log-log plot of Optical Density versus Rat HPX concentration (ng/mL). The x-axis ranges from 10 to 10,000 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 Rat HPX increases, the optical density also increases. The curve is approximately linear on this log-log scale, suggesting a power-law relationship between the two variables.</p> <table border="1"> <caption>Approximate data points from the standard curve</caption> <thead> <tr> <th>Rat HPX concentration (ng/mL)</th> <th>Optical Density</th> </tr> </thead> <tbody> <tr> <td>10</td> <td>0.05</td> </tr> <tr> <td>20</td> <td>0.1</td> </tr> <tr> <td>50</td> <td>0.2</td> </tr> <tr> <td>100</td> <td>0.4</td> </tr> <tr> <td>200</td> <td>0.8</td> </tr> <tr> <td>500</td> <td>1.5</td> </tr> <tr> <td>1000</td> <td>2.5</td> </tr> </tbody> </table>	Rat HPX concentration (ng/mL)	Optical Density	10	0.05	20	0.1	50	0.2	100	0.4	200	0.8	500	1.5	1000	2.5
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ELISA Detection	1:1000-1:10000	Rat HPX Detection Antibody (Biotin)																	

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

Background

Hemopexin (HPX) is the plasma protein responsible for scavenging heme, thus preventing heme-mediated oxidative stress and heme-bound iron loss. In addition, hemopexin blocks heme activation of immune receptors and vascular inflammatory processes. It is mainly expressed in liver, the synthesis of which is induced after inflammation. Alterations of plasma hemopexin level have been linked to disorders like atherosclerosis and inflammatory diseases.