

Mouse EPO Antibody Pair Set

Catalog No.	E-KAB-0550	Applications	ELISA
Synonyms	EP;MVCD2;Epoetin;Hematopoietin;Hemopoietin		

Kit components & Storage

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

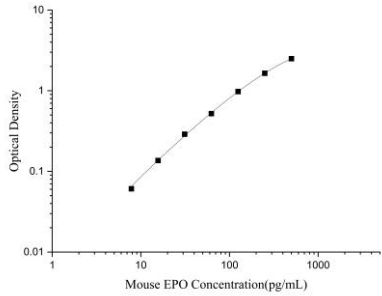
Note: Centrifuge before opening to ensure complete recovery of vial contents.

Product Information

Items		Characteristic (E-KAB-0550)	
		Mouse EPO Capture Antibody	Mouse EPO Detection Antibody (Biotin)
Immunogen Information	Immunogen	Recombinant Mouse EPO protien	Recombinant Mouse EPO protien
	Swissprot	P07321	
Product details	Reactivity	Mouse	Mouse
	Host	Rabbit	Rabbit
	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	Antigen Affinity	Antigen Affinity
	Specificity	Detects Mouse EPO in ELISAs.	

Applications

Mouse EPO Sandwich ELISA Assay:

	Recommended Concentration/Dilution	Reagent	Images																
ELISA Capture	0.5-4 µg/mL	Mouse EPO Capture Antibody	 <p>The graph is a log-log plot. The x-axis is labeled 'Mouse EPO Concentration(pg/mL)' and ranges from 1 to 1000. The y-axis is labeled 'Optical Density' and ranges from 0.01 to 10. The data points form a straight line with a positive slope, indicating a linear relationship between the concentration of Mouse EPO and the optical density.</p> <table border="1"> <caption>Approximate data points from the standard curve</caption> <thead> <tr> <th>Mouse EPO Concentration (pg/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>0.25</td> </tr> <tr> <td>100</td> <td>0.5</td> </tr> <tr> <td>200</td> <td>1.0</td> </tr> <tr> <td>500</td> <td>2.5</td> </tr> <tr> <td>1000</td> <td>5.0</td> </tr> </tbody> </table>	Mouse EPO Concentration (pg/mL)	Optical Density	10	0.05	20	0.1	50	0.25	100	0.5	200	1.0	500	2.5	1000	5.0
Mouse EPO Concentration (pg/mL)	Optical Density																		
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ELISA Detection	1:1000-1:10000	Mouse EPO Detection Antibody (Biotin)																	

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

Background

Hormone involved in the regulation of erythrocyte proliferation and differentiation and the maintenance of a physiological level of circulating erythrocyte mass. Binds to EPOR leading to EPOR dimerization and JAK2 activation thereby activating specific downstream effectors , including STAT1 and STAT3.