

Mouse ARG1 Antibody Pair Set

Catalog No. E-KAB-0582

Applications

ELISA

Synonyms Liver Arginase

Kit components & Storage

Title	Specifications	Storage
Mouse ARG1 Capture Antibody	1 vial, 100 µg	Store at -20°C for one year. Avoid freeze/thaw cycles.
Mouse ARG1 Detection Antibody (Biotin)	1 vial, 50 µL	Store at -20°C for one year. Avoid freeze/thaw cycles.

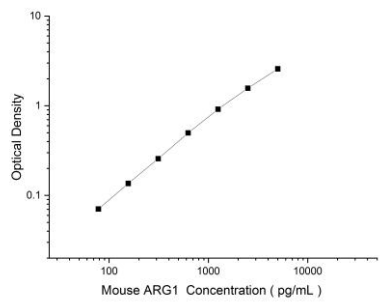
Note: Centrifuge before opening to ensure complete recovery of vial contents.

Product Information

Items		Characteristic (E-KAB-0582)	
		Mouse ARG1 Capture Antibody	Mouse ARG1 Detection Antibody (Biotin)
Immunogen Information	Immunogen	Recombinant Mouse ARG1 protien	Recombinant Mouse ARG1 protien
	Swissprot	Q61176	
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 ARG1 in ELISAs.	

Applications

Mouse ARG1 Sandwich ELISA Assay:

	Recommended Concentration/Dilution	Reagent	Images																
ELISA Capture	0.5-4 µg/mL	Mouse ARG1 Capture Antibody	 <p>The graph displays a standard curve for the Mouse ARG1 Sandwich ELISA Assay. The x-axis represents Mouse ARG1 Concentration in pg/mL on a logarithmic scale from 100 to 10000. The y-axis represents Optical Density on a logarithmic scale from 0.1 to 10. The data points form a straight line, indicating a linear relationship between concentration and optical density.</p> <table border="1"> <caption>Approximate data points from the standard curve</caption> <thead> <tr> <th>Mouse ARG1 Concentration (pg/mL)</th> <th>Optical Density</th> </tr> </thead> <tbody> <tr> <td>100</td> <td>0.08</td> </tr> <tr> <td>200</td> <td>0.12</td> </tr> <tr> <td>500</td> <td>0.25</td> </tr> <tr> <td>1000</td> <td>0.4</td> </tr> <tr> <td>2000</td> <td>0.6</td> </tr> <tr> <td>5000</td> <td>1.2</td> </tr> <tr> <td>10000</td> <td>1.8</td> </tr> </tbody> </table>	Mouse ARG1 Concentration (pg/mL)	Optical Density	100	0.08	200	0.12	500	0.25	1000	0.4	2000	0.6	5000	1.2	10000	1.8
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ELISA Detection	1:1000-1:10000	Mouse ARG1 Detection Antibody (Biotin)																	

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

Background

Arginase 1, also known as liver arginase, is a binuclear manganese metalloenzyme. It is a key enzyme of the urea cycle that catalyses the conversion of L-arginine into L-ornithine and urea, the final cytosolic reaction of urea formation in the mammalian liver. Arginase 1 is abundantly expressed in liver, but it is also expressed in cells and tissues that lack a complete urea cycle, including lung.