

Mouse MIP-1 α Antibody Pair Set

Catalog No.	E-KAB-0354	Applications	ELISA
Synonyms	CCL3, LD78ALPHA, MIP-1-alpha, MIP1A, SCYA3, G0S19-1		

Kit components & Storage

Title	Specifications	Storage
Mouse MIP-1 α Capture Antibody	1 vial, 100 μ g	Store at -20°C for one year. Avoid freeze / thaw cycles.
Mouse MIP-1 α Detection Antibody (Biotin)	1 vial, 50 μ L	Store at -20°C for one year. Avoid freeze / thaw cycles.

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

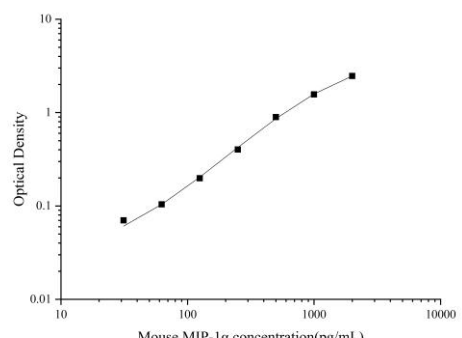
Product Information

Items		Characteristic (E-KAB-0354)	
		Mouse MIP-1 α Capture Antibody	Mouse MIP-1 α Detection Antibody (Biotin)
Immunogen Information	Immunogen	Recombinant Mouse MIP-1 α protein	Recombinant Mouse MIP-1 α protein
	Swissprot	P10855	
Product details	Reactivity	Mouse	Mouse
	Host	Goat	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	Antigen Affinity	Antigen Affinity
	Specificity	Detects Mouse MIP-1 α in ELISAs.	

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Applications

Mouse MIP-1 α Sandwich ELISA Assay:

	Recommended Concentration/Dilution	Reagent	Images																		
ELISA Capture	0.5-4μg/mL	Mouse MIP-1α Capture Antibody	 <table><caption>Approximate data points from the standard curve</caption><thead><tr><th>Mouse MIP-1α 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>0.2</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><tr><td>2000</td><td>4.0</td></tr></tbody></table>	Mouse MIP-1α concentration (pg/mL)	Optical Density	10	0.05	20	0.1	50	0.2	100	0.4	200	0.8	500	1.5	1000	2.5	2000	4.0
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ELISA Detection	1:1000-1:10000	Mouse MIP-1α Detection Antibody (Biotin)																			

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

Background

MIP-1 alpha (macrophage inflammatory protein 1 alpha) is a member of the CC or beta chemokine subfamily that was originally purified from the conditioned media of an LPS-stimulated murine macrophage cell line.

MIP-1 alpha acts as a chemoattractant to a variety of cells including monocytes, T cells, B cells and eosinophils. The two human MIP-1 alpha genes arise by duplication/mutation. They code for MIP-1 alpha isoforms CCL3/LD78a and CCL3L1/LD78b, which share 94% amino acid sequence homology. Whereas the human CCL3/LD78a is a single-copy gene, the human CCL3L1/LD78b gene copy number varies within the population. Human CCL3L1/LD78b binds and signals through chemokine receptors CCR1, CCR5. When compared to CCL3/LD78a, CCL3L1/LD78b has higher binding affinity to CCR5, which also functions as a coreceptor for HIV-1 entry. The copy number of CCL3L1 is one of several genetic determinants of HIV-1 susceptibility.

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