

## Mouse MMP-3 Antibody Pair Set

<b>Catalog No.</b>	E-KAB-0589	<b>Applications</b>	ELISA
<b>Synonyms</b>	MMP3;CHDS6;SL-1;STMY;STMY1;STR1;Progelatinase		

### Kit components & Storage

Title	Specifications	Storage
Mouse MMP-3 Capture Antibody	1 vial, 100 µg	Store at -20°C for one year. Avoid freeze/thaw cycles.
Mouse MMP-3 Detection Antibody (Biotin)	1 vial, 50 µL	Store at -20°C for one year. Avoid freeze/thaw cycles.

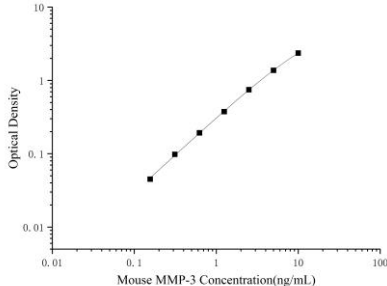
**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

### Product Information

Items		Characteristic (E-KAB-0589)	
		Mouse MMP-3 Capture Antibody	Mouse MMP-3 Detection Antibody (Biotin)
Immunogen Information	Immunogen	Recombinant Mouse MMP-3 protien	Recombinant Mouse MMP-3 protien
	Swissprot	P28862	
Product details	Reactivity	Mouse	Mouse
	Host	Goat	Goat
	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 MMP-3 in ELISAs.	

## Applications

Mouse MMP-3 Sandwich ELISA Assay:

	Recommended Concentration/Dilution	Reagent	Images																
ELISA Capture	0.5-4 µg/mL	Mouse MMP-3 Capture Antibody	 <p>The graph displays a standard curve for the Mouse MMP-3 Sandwich ELISA Assay. The x-axis represents Mouse MMP-3 Concentration in ng/mL on a logarithmic scale from 0.01 to 100. The y-axis represents Optical Density on a logarithmic scale from 0.01 to 10. The data points form a straight line, indicating a linear relationship between the concentration of the antigen and the resulting optical density.</p> <table border="1"> <caption>Approximate data points from the standard curve</caption> <thead> <tr> <th>Mouse MMP-3 Concentration (ng/mL)</th> <th>Optical Density</th> </tr> </thead> <tbody> <tr><td>0.1</td><td>0.05</td></tr> <tr><td>0.2</td><td>0.1</td></tr> <tr><td>0.5</td><td>0.2</td></tr> <tr><td>1</td><td>0.4</td></tr> <tr><td>2</td><td>0.8</td></tr> <tr><td>5</td><td>1.6</td></tr> <tr><td>10</td><td>3.2</td></tr> </tbody> </table>	Mouse MMP-3 Concentration (ng/mL)	Optical Density	0.1	0.05	0.2	0.1	0.5	0.2	1	0.4	2	0.8	5	1.6	10	3.2
Mouse MMP-3 Concentration (ng/mL)	Optical Density																		
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ELISA Detection	1:1000-1:10000	Mouse MMP-3 Detection Antibody (Biotin)																	

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

## Background

Proteins of the matrix metalloproteinase (MMP) family are involved in the breakdown of extracellular matrix in normal physiological processes, such as embryonic development, reproduction, and tissue remodeling, as well as in disease processes, such as arthritis and metastasis. Most MMP's are secreted as inactive proproteins which are activated when cleaved by extracellular proteinases. This gene encodes an enzyme which degrades fibronectin, laminin, collagens III, IV, IX, and X, and cartilage proteoglycans. The enzyme is thought to be involved in wound repair, progression of atherosclerosis, and tumor initiation. The gene is part of a cluster of MMP genes which localize to chromosome 11q22.3.