

## Rat MMP-9 Antibody Pair Set

<b>Catalog No.</b>	E-KAB-0108	<b>Applications</b>	ELISA
<b>Synonyms</b>	MMP9, CLG4B, Gelatinase B, GELB, MANDP2, 92kDa Type IV Collagenase, 92 KDa Gelatinase		

### Kit components & Storage

Title	Specifications	Storage
Rat MMP-9 Capture Antibody	1 vial, 100 µg	Store at -20°C for one year. Avoid freeze / thaw cycles.
Rat MMP-9 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-0108)	
		Rat MMP-9 Capture Antibody	Rat MMP-9 Detection Antibody (Biotin)
Immunogen Information	Immunogen	Recombinant Rat MMP-9 protein	Recombinant Rat MMP-9 protein
	Swissprot	P50282	
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 & Antigen Affinity	Protein A & Antigen Affinity
	Specificity	Detects Rat MMP-9 in ELISAs.	

### For Research Use Only

## Applications

### Rat MMP-9 Sandwich ELISA Assay:

	Recommended Concentration/Dilution	Reagent	Images																
ELISA Capture	0.5-4µg/mL	Rat MMP-9 Capture Antibody	<table border="1"> <caption>Approximate data points from the standard curve graph</caption> <thead> <tr> <th>Rat MMP-9 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 MMP-9 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
Rat MMP-9 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																		
ELISA Detection	1:1000-1:10000	Rat MMP-9 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. The enzyme encoded by this gene degrades type IV and V collagens. Studies in rhesus monkeys suggest that the enzyme is involved in IL-8-induced mobilization of hematopoietic progenitor cells from bone marrow, and murine studies suggest a role in tumor-associated tissue remodeling.

## For Research Use Only