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# **Rat MMP-9 Antibody Pair Set**

Catalog No. E-KAB-0108 Applications ELISA

**Synonyms** 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 μ g	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.

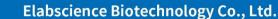
Note: Centrifuge before opening to ensure complete recovery of vial contents.

## **Product Information**

Items		Characteristic (E-KAB-0108)	
		Rat MMP-9 Capture Antibody	Rat MMP-9 Detection Antibody
			(Biotin)
Immunogen	Immunogen	Recombinant Rat MMP-9 protein	Recombinant Rat MMP-9 protein
Information	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%	PBS with 0.04% Proclin 300, 1%
		glycerol, pH 7.4	protective protein, 50% glycerol, pH
			7.4
	Purify	Protein A & Antigen Affinity	Protein A & Antigen Affinity
	Specificity	Detects Rat MMP-9 in ELISAs.	

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## **Applications**

Rat MMP-9 Sandwich ELISA Assav:

	Recommended	Reagent	Images
	Concentration/Dilution		
ELISA	0.5-4μg/mL	Rat MMP-9 Capture Antibody	
Capture			10 all 1 all
ELISA	1:1000-1:10000	Rat MMP-9 Detection Antibody	Optical Density
Detection		(Biotin)	0.01 10 100 1000 10000 Rat MMP-9 concentration(ng/mL)

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 tumorassociated tissue remodeling.

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