

Rat MMP9/MMP-9/CLG4B ELISA Kit | MMP9/MMP-9/CLG4B elisa kit

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CATALOG #
AAA258500

REACTIVITY
Rat

PRODUCT SYNONYMS

MMP9/MMP-9/CLG4B; Rat MMP9/MMP-9/CLG4B ELISA Kit; MMP-9 ELISA Kit; Rat; matrix metalloproteinase 9; MMP9/MMP-9/CLG4B elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	For the quantitative determination of Rat MMP9/MMP-9/CLG4B concentration in serum.
Assay Type	Solid Phase Sandwich ELISA (quantitative)
Sample Types	Serum
Detection Range	31.25-2000pg/mL
Sensitivity	10.69pg/mL
Conjugation	HRP
Interference	Preparations of the following factors at 50ng/mL in a mid-range recombinant Rat MMP9 control were assayed for interference. No significant interference was observed.
Materials Provided	1. 96 well microplate coated with Capture Antibody 2. Detection Antibody conjugated to HRP 3. Standards 4. Wash Buffer Concentrate 5. Dilution Buffer Concentrate 6. Color Reagent A 7. Color Reagent B 8. Stop Solution

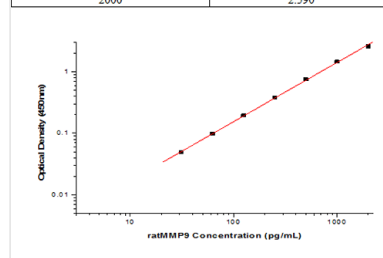
IMAGES

Recombinant human			
MMP1	MMP2	MMP3	MMP8
MMP9	MMP12	MMP19	TIMP1
Recombinant mouse			
MMP2	MMP8	MMP9	
Recombinant rat			
IL1B	IL2	IL-10	IL12B
TNFA	IL6	IFN gamma	CCL3
TIMP1	CSF2	VEGF164	

Application Data

This assay recognizes both recombinant and natural Rat MMP9. The factors listed below were prepared at 50ng/mL in dilution buffer and assayed for cross-reactivity. No cross-reactivity was observed.

Concentration (pg/mL)	Zero standard subtracted OD
0	0
31.25	0.049
62.5	0.099
125	0.195
250	0.378
500	0.752
1000	1.458
2000	2.390



Standard Curve (Sample)

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

ADDITIONAL INFORMATION

Related Product Information for MMP9/MMP-9/CLG4B elisa kit	This MMP-9 ELISA Kit, Rat is an enzyme-linked immunosorbent assay for the quantitative measurement of Rat MMP-9 protein in Serum. It contains recombinant Rat MMP-9, and antibodies raised against the recombinant protein. This ELISA kit is complete and ready-to-use. Background: Matrix metalloproteinases (MMPs) are neutral proteinases that are involved in the breakdown and remodeling of the extracellular matrix (ECM) under a variety of physiological and pathological conditions, such as morphogenesis, differentiation, angiogenesis, and tissue remodeling, as well as pathological processes including inflammation, arthritis, cardiovascular diseases, pulmonary diseases, and tumor invasion. MMP9, also known as 92-kDa gelatinase B/type IV collagenase, is secreted from neutrophils, macrophages, and some transformed cells, and is the most complex family member in terms of domain structure and regulation of its activity. It plays an important role in tissue remodeling in normal and pathological inflammatory processes. MMP-9 is a major secretion product of macrophages and a component of cytoplasmic granules of neutrophils and is particularly important in the pathogenesis of inflammatory, infectious, and neoplastic diseases in many organs including the lung. This enzyme is also secreted by lymphocytes and stromal cells upon stimulation by inflammatory cytokines, or upon delivery of bi-directional activation signals following integrin-mediated cell-cell or cell-extracellular matrix (ECM) contacts. Since the integrity of the tissue architecture is closely dependent on the delicate balance between MMPs and their inhibitors, excessive production of MMP-9 is linked to tissue damage and degenerative inflammatory disorders. As a consequence, regulation of gene transcription and tissue-specific expression of MMP-9 in normal and diseased states are being actively investigated to pave the way for new therapeutic targets. Besides, the dramatic overexpression of MMP-9 in cancer and various inflammatory conditions points to the molecular mechanisms controlling its expression as a potential target for eventual rational therapeutic intervention.
References	St-Pierre Y, et al. (2003) Emerging features in the regulation of MMP-9 gene expression for the development of novel molecular targets and therapeutic strategies. Curr Drug Targets Inflamm Allergy. 2(3): 206-15. St-Pierre Y, et al. (2004) Regulation of MMP-9 gene expression for the development of novel molecular targets against cancer and inflammatory diseases. Expert Opin Ther Targets. 8(5): 473-89. Chakrabarti S, et al. (2005) Matrix metalloproteinase-2 (MMP-2) and MMP-9 in pulmonary pathology. Exp Lung Res. 31(6): 599-621.

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.