

Pig MMP9 protein, His tag (active)

Cat. No. GTX00050-pro**Applications** Functional Assay**Species** Pig**Package**

10 µg

Applications

Application Note

MMP9 is a zinc-dependent enzymes capable of cleaving components of the extracellular matrix, which belongs to the matrix metalloproteinase (MMP) family. It is a gelatinase A, 92kDa type IV collagenase which can hydrolyze gelatin under certain conditions. Gelatin zymography is mainly used for the detection of the gelatinases, MMP-2 and MMP-9 and It is extremely sensitive because levels of 10pg of MMP-2 can already be detected. Briefly, various concentrations of recombinant pig MMP9 (1000 ng, 500 ng, 100 ng, 10 ng, 1ng, 0.1 ng) were denatured by SDS loading buffer, electrophoresed through sodium dodecylsulphate- polyacrylamide gel (SDS-PAGE; 10% gels) containing gelatin (1 mg/ml) with nonreducing conditions. After renaturation, incubation and CCB-stained, active MMP2 would hydrolyze gelatin nearby, which was indicated by the white binds on the gel. In the experiment, using a heat-denatured MMP9 protein was as a negative control, and blood sample was as a positive control.

Observed MW (kDa) 30 kDa.

Properties

Form Lyophilized powder**Buffer** Reconstitute with 20mM Tris and 150mM NaCl to 0.1-1.0mg/ml. Do not vortex. Lyophilized from 20mM Tris, 150mM NaCl, 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose.**Preservative** ProClin 300**Storage** For short-term storage (1-2 weeks), store at 4°C. For long-term storage, store at -20°C or below. After reconstitution, keep as concentrated solution. Avoid freeze-thaw cycles.**Region/Sequence** N-terminal His-Tag; Ile169~Glu387**Expression System** E. coli**Purity** > 90%**Endotoxin** < 1 EU/µg**Conjugation** Unconjugated**Note** For laboratory use only. Not for any clinical, therapeutic, or diagnostic use in humans or animals. Not for animal or human consumption.

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DATA IMAGES

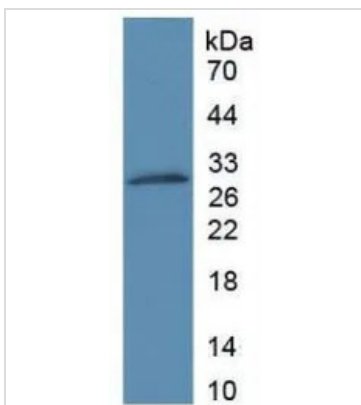


GTX00050-pro Functional Assay Image

Gelatin hydrolysis by various concentrations of GTX00050-pro Pig MMP9 protein (active).

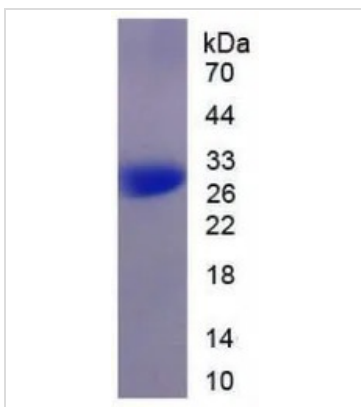
Positive control: Blood sample

Negative control: Heat-denatured MMP9 protein



GTX00050-pro Image

WB analysis of GTX00050-pro Pig MMP9 protein (active).



GTX00050-pro Image

SDS-PAGE analysis of GTX00050-pro Pig MMP9 protein (active).



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