

Pig MMP9 protein, His tag (active)

Cat. No. GTX00050-pro

Application	Functional Assay
Species	Pig

Package
10 µg

APPLICATION

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, 1 ng, 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.

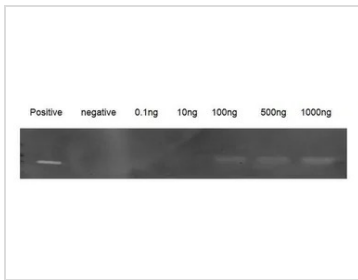
Observed MW 30 kDa.

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.



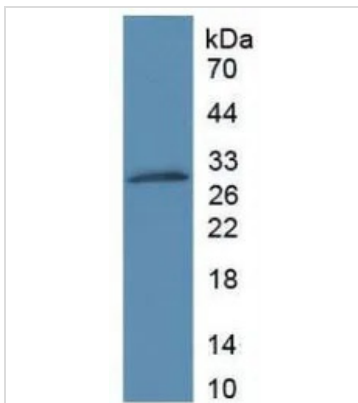
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DATA IMAGES

GTx00050-pro Functional Assay Image

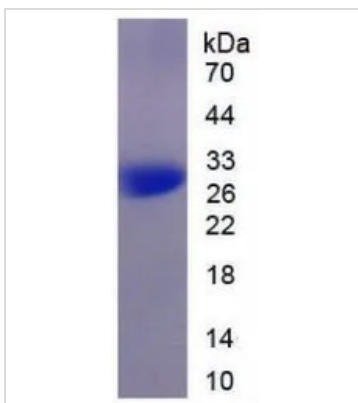
Gelatin hydrolysis by various concentrations of GTx00050-pro Pig MMP9 protein (active).

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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