

Mouse MMP2 protein, His tag (active)

Cat. No. GTX00073-pro

Applications Functional Assay

Species Mouse

Package

10 µg

Applications

Application Note

MMP2 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, 72kDa 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 MMP2 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 MMP2 protein was as a negative control, and blood sample was as a positive control.

Observed MW (kDa) 63 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; Tyr110~Cys660 (NP_032636.1)

Expression System E. coli

Purity > 95%

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

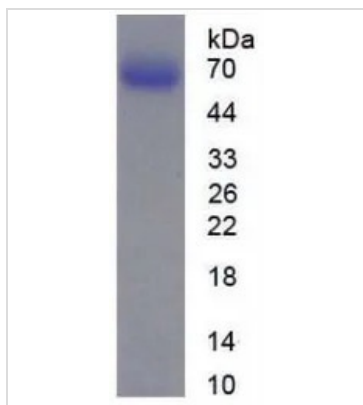


GTX00073-pro Functional Assay Image

Gelatin hydrolysis by various concentrations of GTX00073-pro Mouse MMP2 protein (active).

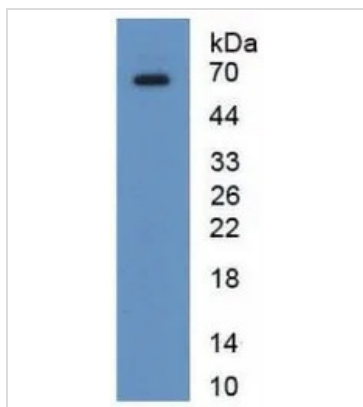
Positive control: Blood sample

Negative control: Heat-denatured MMP2 protein



GTX00073-pro Image

SDS-PAGE analysis of GTX00073-pro Mouse MMP2 protein (active).



GTX00073-pro Image

WB analysis of GTX00073-pro Mouse MMP2 protein (active).



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