

## Rat TIMP3 protein, His tag

Cat. No. GTX00064-pro

Application	Functional Assay
Species	Rat

Package  
10 µg

## APPLICATION

## Application Note

Tissue Inhibitors Of Metalloproteinase 3 (TIMP3) is a protein belongs to the tissue inhibitor of metalloproteinases family. They are inhibitors of the matrix metalloproteinases. TIMP-3 is the only member of the TIMP family which is found exclusively in the extracellular matrix (ECM). It is regulated in a cell cycle-dependent fashion in certain cell types and may serve as a marker for terminal differentiation. Besides, Matrix Metalloproteinase 2 (MMP2) has been identified as an interactor of TIMP3, thus a binding ELISA assay was conducted to detect the interaction of recombinant rat TIMP3 and recombinant rat MMP2. Briefly, TIMP3 were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100 µl were then transferred to MMP2-coated microtiter wells and incubated for 2h at 37°C. Wells were washed with PBST and incubated for 1h with anti-TIMP3 pAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody, wells were aspirated and washed 3 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37°C. Finally, add 50 µl stop solution to the wells and read at 450nm immediately. The binding activity of TIMP3 and MMP2 was in a dose dependent manner.

Observed MW 22 kDa.

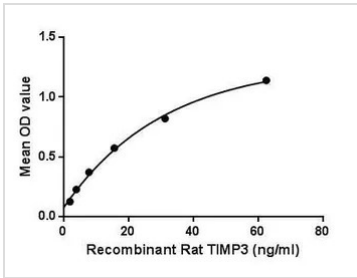
## PROPERTIES

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; Ser27~Thr209
Expression System	E. coli
Purity	> 97%
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.

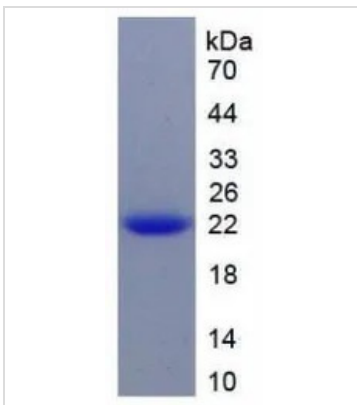


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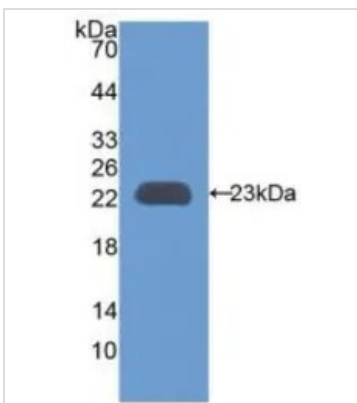
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**DATA IMAGES**

**GTx00064-pro Functional Assay Image**

Functional ELISA analysis of GTx00064-pro Rat TIMP3 protein which can bind immobilized MMP2 protein.


**GTx00064-pro Image**

SDS-PAGE analysis of GTx00064-pro Rat TIMP3 protein.


**GTx00064-pro Image**

WB analysis of GTx00064-pro Rat TIMP3 protein.



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