

Human Plasminogen protein, His tag

Cat. No. GTX00216-pro

Applications Functional Assay

Species Human

Package

10 µg

Applications

Application Note

Plasmin is an important enzyme present in blood that degrades many blood plasma proteins, including fibrin clots. It is released as a zymogen called plasminogen (PLG) from the liver into the systemic circulation. Plasmin is a serine protease that acts to dissolve fibrin blood clots. Apart from fibrinolysis, plasmin proteolyzes proteins in various other systems: It activates collagenases, some mediators of the complement system and weakens the wall of the Graafian follicle (leading to ovulation). It cleaves fibrin, fibronectin, thrombospondin, laminin, and von Willebrand factor. Plasmin, like trypsin, belongs to the family of serine proteases. Besides, Actin Beta (ACTb) has been identified as an interactor of PLG, thus a binding ELISA assay was conducted to detect the interaction of recombinant human PLG and recombinant human ACTb. Briefly, PLG were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100 µl were then transferred to ACTb-coated microtiter wells and incubated for 2h at 37°C. Wells were washed with PBST and incubated for 1h with anti-PLG 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 PLG and ACTb was in a dose dependent manner.

Observed MW (kDa) 38 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; confidential (NP_000292.1)

Expression System E. coli

Purity > 95%

Endotoxin < 1 EU/µg

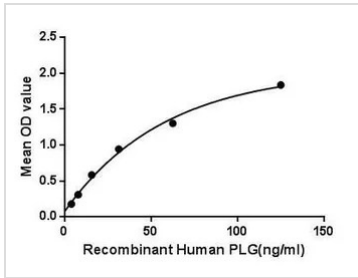
Conjugation Unconjugated

Note For laboratory use only. Not for any clinical, therapeutic, or diagnostic use in humans or animals. Not for animal or human consumption.



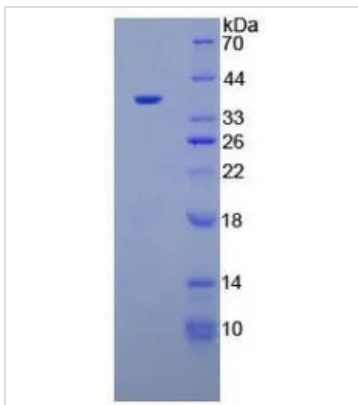
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DATA IMAGES



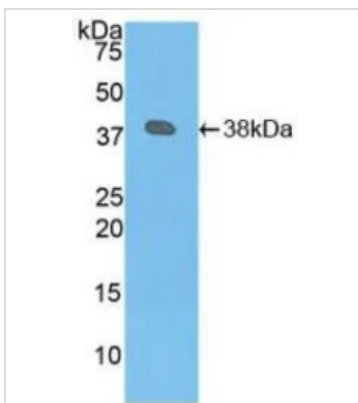
GTX00216-pro Functional Assay Image

Functional ELISA analysis of GTX00216-pro Human Plasminogen protein which can bind immobilized ACTb protein.



GTX00216-pro Image

SDS-PAGE analysis of GTX00216-pro Human Plasminogen protein.



GTX00216-pro Image

WB analysis of GTX00216-pro Human Plasminogen protein.



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