

Plasminogen (Plg) Active Protein | Plg active protein

Active Plasminogen (Plg)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA148189	E Coli	Rat	Activity Assay, Cell Culture

PRODUCT SYNONYMS

Plasminogen (Plg); Active Plasminogen (Plg); PL; Plasmin; Activation peptide; Angiostatin; Plg active protein

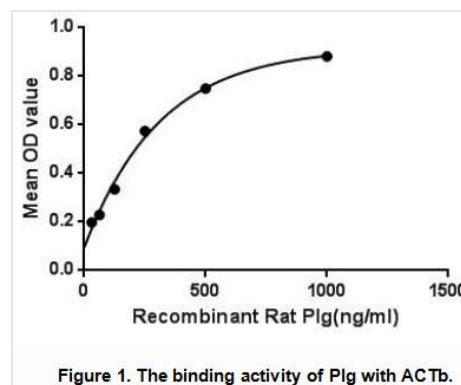
PRODUCT SPECIFICATIONS

Host	E Coli
Reactivity	Rat
Purity/Purification	> 95%
Form/Format	Freeze-dried powder
Sequence Length	812
Applicable Applications for Plg active protein	Activity Assay, Cell Culture
Tag	N-terminal His Tag
Buffer Formulation	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Fragment	Glu191~Arg433
Isoelectric Point	7.9

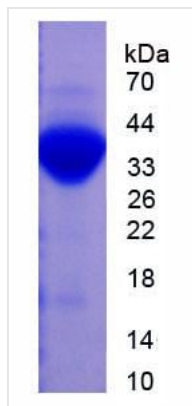
IMAGES



Application Data



Application Data



SDS-PAGE

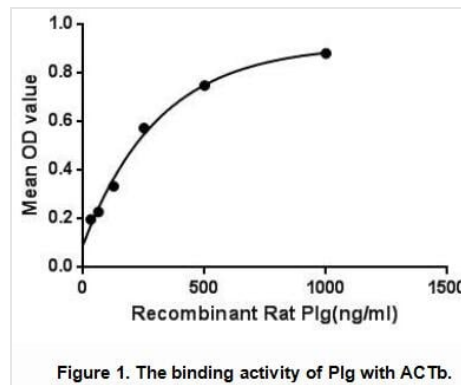


Figure 1. The binding activity of Plg with ACTb.

Activity

Plasminogen (Plg) can be converted into active plasmin by tissue plasminogen activator (tPA), urokinase plasminogen activator (uPA), kallikrein, and factor XII (Hageman factor). Plasmin can dissolve fibrin blood clots, act on many other processes such as embryonic development, tissue remodeling, inflammation and tumor invasion. Plasmin also can activate collagenases, weaken the walls of the Graafian follicle, cleave fibrin, fibronectin, thrombospondin, laminin, and von Willebrand factor. 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 rat Plg and recombinant rat ACTb. Briefly, Plg was diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100 μ L were then transferred to ACTb-coated microtiter wells and incubated for 2 h at 37 degree C. Wells were washed with PBST and incubated for 1 h 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 degree C. Finally, add 50 μ L stop solution to the wells and read at 450nm immediately. The binding activity of Plg and ACTb was shown in Figure 1, and this effect was in a dose dependent manner.

ADDITIONAL INFORMATION

Product Categories/Family for Plg active protein	Signal transduction; Hematology
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NCBI AND UNIPROT INFORMATION

NCBI GI #	16758216
NCBI GeneID	85253
NCBI Accession #	NP_445943.1
NCBI GenBank Nucleotide #	NM_053491.2
UniProt Accession #	Q01177; Q5BKB6; Q9R0W3
Molecular Weight	Predicted Molecular Weight: 31.2kDa Accurate Molecular Weight: 38kDa
NCBI Official Full Name	plasminogen
NCBI Official Synonym Full Names	plasminogen
NCBI Official Symbol	Plg
NCBI Official Synonym Symbols	Ab1-346
NCBI Protein Information	plasminogen
UniProt Protein Name	Plasminogen
UniProt Gene Name	Plg

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/e-coli-rat-active-protein/plasminogen-plg/148189>