

Plasminogen Activator, Urokinase Receptor (uPAR) Active Protein | uPAR active protein

Active Plasminogen Activator, Urokinase Receptor (uPAR)

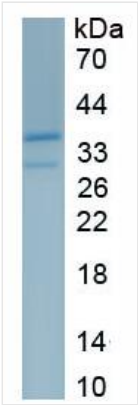
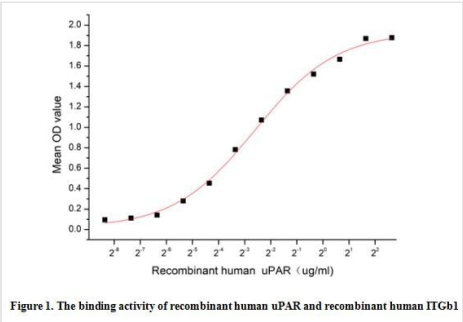
CATALOG # AAA161708	HOST E Coli	APPLICATIONS Activity Assay, Cell Culture
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PRODUCT SYNONYMS

Plasminogen Activator; Urokinase Receptor (uPAR); Active Plasminogen Activator; Urokinase Receptor; CD87; PLAUR; PLAU-R; U-PAR; URKR; Monocyte Activation Antigen Mo34; uPAR active protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	Greater than 80% by SDS-PAGE
Form/Format	Freeze-dried powder; PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Sequence	Leu13~Gly3 05
Applicable Applications for uPAR active protein	Activity Assay, Cell Culture
Species	Human
Expression System	Prokaryotic expression
Tag	N-terminal His Tag
Endotoxin Level	<1.0EU per 1ug (determined by the LAL method)
Isoelectric Point	6.4
Research Area	Tumor immunity, Hematology
Preparation and Storage	Store at 2-8 degree C for one month, -80 degree C for 12 months



SDS-PAGE
Figure. SDS-PAGE

Bioactivity
Urokinase-type plasminogen activator receptor (uPAR) is a glycosylphosphatidylinositol (GPI)-anchored protein. Besides regulating proteolysis, uPAR could also activate many intracellular signaling pathways that promote cell motility, invasion, proliferation and survival through cooperating with transmembrane receptors. uPAR is overexpressed across a variety of tumors and is associated with cancer invasion and metastasis. ITGb1 has been identified as an interactor of uPAR, thus a functional binding ELISA assay was conducted to detect the interaction of recombinant human uPAR and recombinant human ITGb1. Briefly, uPAR was diluted serially in PBS with 0.01% BSA (pH 7.4). Duplicate samples of 100 ul were then transferred to ITGb1-coated microtiter wells and incubated for 1h at 37 degree C. Wells were washed with PBST and incubated for 1h with anti-uPAR pAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody for 1h at 37 degree C, wells were aspirated and washed 5 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37 degree C. Finally, add 50 uL stop solution to the wells and read at 450/630 nm immediately. The binding activity of recombinant human uPAR and recombinant human ITGb1 was shown in Figure 1, the EC50 for this effect is 0.165 ug/mL.

ADDITIONAL INFORMATION

Product Categories/Family for uPAR active protein	Active proteins
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NCBI AND UNIPROT INFORMATION

NCBI GI #	4505865
NCBI GeneID	5329
NCBI Accession #	NP_002650.1
NCBI GenBank Nucleotide #	NM_002659.3
UniProt Accession #	Q03405; Q12876; Q15845; Q16887; Q6IB52; Q9BWT0; Q9NYC8; Q9UD69; Q9UEA6; Q9UM92; Q9UMV0; A8K409
Molecular Weight	36,978 Da
NCBI Official Full Name	urokinase plasminogen activator surface receptor isoform 1
NCBI Official Synonym Full Names	plasminogen activator, urokinase receptor
NCBI Official Symbol	PLAUR
NCBI Official Synonym Symbols	CD87; UPAR; URKR; U-PAR
NCBI Protein Information	urokinase plasminogen activator surface receptor; monocyte activation antigen Mo3; u-plasminogen activator receptor form 2; urokinase-type plasminogen activator (uPA) receptor
UniProt Protein Name	Urokinase plasminogen activator surface receptor
UniProt Gene Name	PLAUR
UniProt Synonym Gene Names	MO3; UPAR; U-PAR; uPAR
UniProt Entry Name	UPAR_HUMAN

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.

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Online datasheet: <https://stage.aaabiotech.com/e-coli-active-protein/plasminogen-activator-urokinase-receptor-upar/161708>