

# Recombinant Human uPAR/PLAUR/CD87 Protein

Catalog No.: RP00295 **Recombinant**

## Sequence Information

Species	Gene ID	Swiss Prot
Human	5329	Q03405

### Tags

C-His

### Synonyms

PLAUR; CD87; U-PAR; UPAR; URKR; plasminogen activator; urokinase receptor; CD87; U-PAR; UPAR; URKR

## Product Information

Source	Purification
HEK293 cells	> 97% by SDS-PAGE.

### Endotoxin

< 0.1 EU/μg of the protein by LAL method.

### Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4. Contact us for customized product form or formulation.

### Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

## Contact

 | [www.abclonal.com](http://www.abclonal.com)

## Background

The secreted recombinant human UPAR consists of 292 amino acids with a molecular weight of 32.8 kDa. Recombinant human UPAR migrates as an about 48 kDa band in SDS-PAGE under reducing conditions due to glycosylation. Urokinase plasminogen activator surface receptor (U-PAR) is also known as PLAUR, Monocyte activation antigen Mo3, CD antigen CD87. U-PAR contains three UPAR/Ly6 domains and is expressed in neurons of the Rolandic area of the brain (at protein level). PLAUR / UPAR acts as a receptor for urokinase plasminogen activator and plays a role in localizing and promoting plasmin formation. Urokinase plasminogen activator (uPA) and/or its receptor (uPAR) are essential for metastasis, and overexpression of these molecules is strongly correlated with poor prognosis in a variety of malignant tumours. Furthermore, the analysis of U-PAR expression has a potential role in the diagnostic or prognostic work-up of several hematological malignancies, particularly acute leukemia and multiple myeloma.

## Basic Information

### Description

Recombinant Human uPAR/PLAUR/CD87 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Leu23-Arg303) of human uPAR (Accession #NP\_002650.1) fused with a 6xHis tag at the C-terminus.

### Bio-Activity

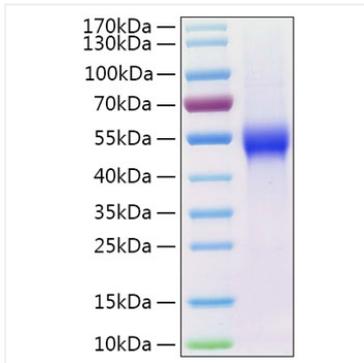
Measured by its binding ability in a functional ELISA. Immobilized Human PLAUR at 1 μg/mL (100 μL/well) can bind PLAUR Rabbit pAb with a linear range of 0.03-14.17 ng/mL.

### Storage

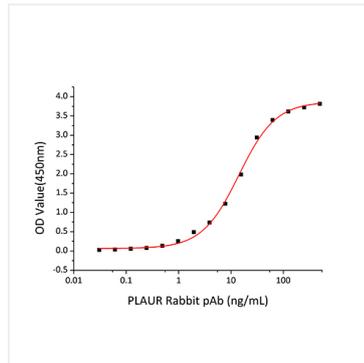
Store the lyophilized protein at -20°C to -80 °C for long term. After reconstitution, the protein solution is stable at -20 °C for 3 months, at 2-8 °C for up to 1 week. Avoid repeated freeze/thaw cycles.

## Validation Data

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Recombinant Human uPAR/PLAUR/CD87 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 45-55 kDa.



Immobilized Human PLAUR at 1  $\mu\text{g/mL}$  (100  $\mu\text{L/well}$ ) can bind PLAUR Rabbit pAb with a linear range of 0.03-14.17ng/mL.