

## Rabbit uPA Receptor/PLAUR Polyclonal Antibody | anti-PLAUR antibody

Anti-uPA Receptor/PLAUR Antibody

| CATALOG # | HOST   | REACTIVITY        | APPLICATIONS                                                                              |
|-----------|--------|-------------------|-------------------------------------------------------------------------------------------|
| AAA124914 | Rabbit | Human, Mouse, Rat | Flow Cytometry, Functional Assay, Immunocytochemistry, Immunohistochemistry, Western Blot |

### PRODUCT SYNONYMS

uPA Receptor/PLAUR; Polyclonal Antibody; Anti-uPA Receptor/PLAUR Antibody; Urokinase plasminogen activator surface receptor; U-PAR; Monocyte activation antigen Mo3; uPAR; CD87; Plaur; MO3; UPAR; Plasminogen activator; urokinase receptor; anti-PLAUR antibody

### PRODUCT SPECIFICATIONS

|                                                 |                                                                                                                                                                                          |
|-------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                            | Rabbit                                                                                                                                                                                   |
| Reactivity                                      | Human, Mouse, Rat                                                                                                                                                                        |
| Clonality                                       | Polyclonal                                                                                                                                                                               |
| Isotype                                         | IgG                                                                                                                                                                                      |
| Purity/Purification                             | Immunogen Affinity Purified                                                                                                                                                              |
| Form/Format                                     | Lyophilized; Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.                                                                                                   |
| Sequence Length                                 | 281                                                                                                                                                                                      |
| Applicable Applications for anti-PLAUR antibody | FCM/FACS (Flow Cytometry), ICC (Immunocytochemistry), IHC (Immunohistochemistry), WB (Western Blot)                                                                                      |
| Immunogen                                       | A synthetic peptide corresponding to a sequence of human uPA Receptor/PLAUR (TKSGCNHPDLVDVQYRS).                                                                                         |
| Reconstitution                                  | Add 0.2ml of distilled water will yield a concentration of 500ug/ml.                                                                                                                     |
| Relevant Detection Systems                      | It is recommended to use an Enhanced Chemiluminescent Kit with anti-Rabbit IgG for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit for IHC-F and ICC.            |
| Preparation and Storage                         | Store at -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time.<br>Avoid repeated freezing and thawing. |



FCM/FACS (Flow Cytometry)

Figure 3. Flow Cytometry analysis of H-PBMC cells using anti-uPA Receptor antibody.Overlay histogram showing H-PBMC cells stained with A00993-3 (Blue line).The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-uPA Receptor antibody.Overlay histogram showing H-PBMC cells stained with A00993-3 (Blue line).The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-uPA Receptor Antibody for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG (5-10ug/1x106 cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x106) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



WB (Western Blot)

Figure 1. Western blot analysis of uPA Receptor using anti-uPA Receptor antibody.Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions.Lane 1: human placenta tissue lysate,Lane 2: human U2OS whole cell lysate,Lane 3: human A431 whole cell lysate,Lane 4: human Hela whole cell lysate,Lane 5: human A549 whole cell lysate.After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-uPA Receptor antigen affinity purified polyclonal antibody at 0.5 ug/ml overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for uPA Receptor at approximately 39KD. The expected band size for uPA Receptor is at 37KD.

ADDITIONAL INFORMATION

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|-----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-PLAUR antibody | PLAUR(PLASMINOGEN ACTIVATOR RECEPTOR, UROKINASE-TYPE), also known as UPAR or CD87, is multidomain glycoprotein tethered to the cell membrane with a glycosylphosphatidylinositol (GPI) anchor. PLAUR consists of three different domains of the Ly-6/uPAR/alpha-neurotoxin family. PLAUR is originally identified as a saturable binding site for urokinase on the cell surface. And the gene plays an importan trole in many normal as well as pathologic processes. The PLAUR gene is localized to 19q13.31. PLAUR is a part of the plasminogen activation system, which in the healthy body is involved in tissue reorganization events such as mammary gland involution and wound healing. PLAUR binds urokinase and thus restricts plasminogen activation to the immediate vicinity of the cell membrane. Thus it seems to be an important player in the regulation of this process. In human coronary artery vascular smooth muscle cells, UPA stimulates cell migration via a UPAR signaling complex containing TYK2 and phosphatidylinositol 3-kinase. |
| References                                          | 1. Borglum, A., Anette, B., Roldan, A. L., Blasi, F., Bolund, L., Kruse, T. A. Assignment of the gene for urokinase-type plasminogen activator receptor to chromosome 19q13. 2. Borglum, A. D., Byskov, A., Ragno, P., Roldan, A. L., Tripputi, P., Cassani, G., Dano, K., Blasi, F., Bolund, L., Kruse, T. A. Assignment of the urokinase-type plasminogen activator receptor gene (PLAUR) to chromosome 19q13.1-q13.2. Am. J. Hum. Genet. 50: 492-497, 1992. 3. Llinas P, Le Du MH, Gårdsvoll H, et al. (May 2005). "Crystal structure of the human urokinase plasminogen activator receptor bound to an antagonist peptide".                                                                                                                                                                                                                                                                                                                                                                                                                                |

NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                |
|----------------------------------|------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 53829379                                                                                       |
| NCBI GeneID                      | 5329                                                                                           |
| NCBI Accession #                 | NP_001005376.1                                                                                 |
| NCBI GenBank Nucleotide #        | NM_001005376.2                                                                                 |
| UniProt Accession #              | Q03405; Q12876; Q15845; Q16887; Q6IB52; Q9BWT0; Q9NYC8; Q9UD69; Q9UEA6; Q9UM92; Q9UMV0; A8K409 |
| NCBI Official Full Name          | urokinase plasminogen activator surface receptor isoform 2                                     |
| 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                                               |
| UniProt Protein Name             | Urokinase plasminogen activator surface receptor                                               |

|                            |                        |
|----------------------------|------------------------|
| UniProt Gene Name          | PLAUR                  |
| UniProt Synonym Gene Names | MO3; UPAR; U-PAR; uPAR |

**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/polyclonal/upa-receptor-plaur-antibody-flow-cytometry-immunocytochemistry-immunohistochemistry-western-blot-elisa/124914>