

Mouse uPAR Biotinylated Antibody

Antigen Affinity-purified Polyclonal Goat IgG Catalog Number: BAF534

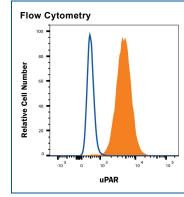
DESCRIPTION	
Species Reactivity	Mouse
Specificity	Detects mouse uPAR in Western blots.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse uPAR isoform 1 Leu24-Thr297 Accession # Q545X5
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with BSA as a carrier protein. See Certificate of Analysis for details.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

	Recommended Concentration	Sample
Western Blot	0.1 μg/mL	Recombinant Mouse uPAR Fc Chimera (Catalog # 531-PA)
Flow Cytometry	0.25 μg/10 ⁶ cells	RAW 264.7 mouse monocyte/macrophage cell line

DATA



Detection of uPAR in Raw264 cells by Flow Cytometry. Raw264 cells were stained with Goat Anti-Mouse uPAR Biotinylated Antigen Affinity-purified Polyclonal Antibody (Catalog # BAF534, filled histogram) or isotype control antibody (Catalog # BAF108, open histogram), followed by Streptavidin-Phycoerythrin (Catalog # F0040). View our protocol for Staining Membrane-associated Proteins.

PREPARATION AND STORAGE

Reconsti	Reconstitution	Reconstitute at 0.2 mg/mc in sterile PBS.													

Shipping The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

Stability & Storage

Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

- 12 months from date of receipt, -20 to -70 °C as supplied.
 1 month, 2 to 8 °C under sterile conditions after reconstitution
- 6 months, -20 to -70 °C under sterile conditions after reconstitution

BACKGROUND

The urokinase-type plasminogen activator (uPA) is one of two activators that converts the extracellular zymogen plasminogen to plasmin, a serine protease that is involved in a variety of normal and pathological processes that require cell migration and/or tissue destruction. uPA is synthesized and released from cells as a single-chain (sc) pro-enzyme with limited enzymatic activity and is converted to an active two-chain (tc) disulfide-linked active enzyme by plasmin and other specific proteinases. Both the scuPA and tcuPA bind with high-affinity to the cell surface via the glycosyl phosphatidylinositol-linked receptor uPAR which serves to localize the uPA proteolytic activity. The enzymatic activity of scuPA has also been shown to be enhanced by binding to uPAR. Independent of their proteolytic activity, the uPA/uPAR interaction also initiates signal transduction responses resulting in activation of protein tyrosine kinases, gene expression, cell adhesion, and chemotaxis. uPAR can interact with integrins to suppress normal integrin adhesive function and promote adhesion to vitronectin through a high affinity vitronectin binding site on uPAR. Mouse uPAR-1/Fc cDNA encodes a 327 amino acid (aa) residue precursor protein with a 23 aa residue signal peptide, seven potential N-linked glycosylation sites and a C-terminal GPI-anchor site. An alternate spliced variant of uPAR encoding a secreted soluble form of uPAR also exists. Human and mouse uPAR share approximately 60% aa sequence identity and the receptor-ligand interaction is highly species-specific. Human uPA binds recombinant mouse uPAR at a lower affinity compared to recombinant human uPAR.

References

1. Dear. A.E. and R.L. Medcalf (1998) Eur. J. Biochemistry 252:185

Rev. 4/3/2023 Page 1 of 1

