

uPAR (h): 293T Lysate: sc-159642

BACKGROUND

Urokinase plasminogen activator receptor (uPAR), also designated CD87, is a glycoprotein I-anchored surface receptor specific for urokinase plasminogen activator (uPA). Upon binding to uPAR, uPA converts the surface bound, large serum β -globulin plasminogen to plasmin. Plasmin, which is also designated fibrinolysin, is a Trypsin-like enzyme that acts on Arg-Lys bonds and induces pericellular proteolysis in Fibrin and Fibrinogen, thereby contributing to the systematic activation of the coagulation cascade. This pathway is observed during re-epithelialization of lesions, wound healing and tissue remodeling. uPA and uPAR are known to be overexpressed in mesenchymal and epithelial origin tumor cells and are required for tumor invasion and metastasis. Ras, MEK, ERK and MLCK function as downstream effectors in the uPAR-dependent signaling cascade, which is initiated by uPA binding and promotes cellular migration in an integrin-selective manner.

REFERENCES

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7. Nguyen, D.H., Catling, A.D., Webb, D.J., Sankovic, M., Walker, L.A., Somlyo, A.V., Weber, M.J. and Gonias, S.L. 1999. Myosin light chain kinase functions downstream of Ras/ERK to promote migration of urokinase-type plasminogen activator-stimulated cells in an integrin-selective manner. *J. Cell Biol.* 146: 149-164.

CHROMOSOMAL LOCATION

Genetic locus: PLAUR (human) mapping to 19q13.31.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PRODUCT

uPAR (h): 293T Lysate represents a lysate of human uPAR transfected 293T cells and is provided as 100 μg protein in 200 μl SDS-PAGE buffer.

APPLICATIONS

uPAR (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive uPAR antibodies.

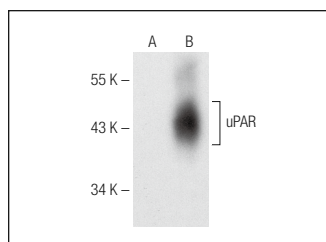
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

uPAR (D-5): sc-376118 is recommended as a positive control antibody for Western Blot analysis of enhanced human uPAR expression in uPAR transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

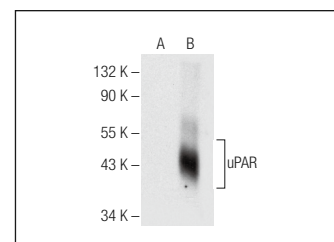
RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended:
1) Western Blotting: use m-IgG κ BP-HRP: sc-516102 or m-IgG κ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.

DATA



uPAR (D-5): sc-376118. Western blot analysis of uPAR expression in non-transfected: sc-117752 (A) and human uPAR transfected: sc-159642 (B) 293T whole cell lysates.



uPAR (E-3): sc-376494. Western blot analysis of uPAR expression in non-transfected: sc-117752 (A) and human uPAR transfected: sc-159642 (B) 293T whole cell lysates.

STORAGE

Store at -20°C . Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.