Revision 1

Store at -20C

#12863

uPAR (D4Q5S) Rabbit mAb

Cell Signaling TECHNOLOGY®

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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W, IP	H	Endogenous	65	Rabbit IgG	#Q03405	5329

Product Usage Information

Application	Dilution
Western Blotting	1:1000
Immunoprecipitation	1:100

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.

Specificity/Sensitivity

uPAR (D4Q5S) Rabbit mAb recognizes endogenous levels of total uPAR protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Thr108 of human uPAR protein.

Background

The human urokinase-type plasminogen activator receptor (uPAR) is a 55-65 kDa, highly glycosylated, GPI-anchored cell surface receptor (the deglycosylated protein is 35 kDa) (1-3). It is a central player in the plasminogen activation pathway. uPAR binds with high affinity to a serine protease urokinase-type plasminogen activator (uPA) and converts plasminogen to its active form plasmin in a spatially restricted manner on the cell surface (4). Plasmin further carries out the activation of uPA, which is inhibited by serpins, such as plasminogen activator inhibitors (5). Therefore, uPAR plays a key role in regulating extracellular proteolysis. In addition, uPAR plays an important role in regulating cell proliferation, adhesion and mobility (6,7). Research studies have shown that overexpression of uPAR is found in various cancer cells and tissues (8,9).

Background References

1. Nielsen, L.S. et al. (1988) *J Biol Chem* 263, 2358-63.
2. Behrendt, N. et al. (1990) *J Biol Chem* 265, 6453-60.
3. Roldan, A.L. et al. (1990) *EMBO J* 9, 467-74.
4. Ellis, V. et al. (1991) *J Biol Chem* 266, 12752-8.
5. Ellis, V. et al. (1990) *J Biol Chem* 265, 9904-8.
6. Liu, D. et al. (2002) *Cancer Cell* 1, 445-57.
7. Waltz, D.A. et al. (1997) *J Clin Invest* 100, 58-67.
8. Blasi, F. and Sidenius, N. (2010) *FEBS Lett* 584, 1923-30.
9. Mazar, A.P. et al. (2011) *Curr Pharm Des* 17, 1970-8.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting **IP:** Immunoprecipitation

Cross-Reactivity Key

H: Human

Trademarks and Patents

Limited Uses

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