

## Monoclonal antibody against human uPA-R (CD 87)

Product No. ADG3937

### Description

The monoclonal antibody ADG3937 (clone HD-UPAR-13.1.1) is a murine monoclonal antibody, subclass IgG<sub>1</sub> recognizing the human urokinase receptor (uPAR) domain 2+3. It binds with high affinity to both uPAR and uPA/uPAR complexes.

### Properties

ADG3937 is non-inhibitory, it does not block uPA from binding to uPAR. Pre-incubation with various uPAR preparations (CHO cell line, U937 cells) can completely inhibit binding of ADG3937 to uPAR). Cross-reactivity with uPAR from other species has not been determined.

### Presentation

Screw capped vial containing 250 µg of purified antibody in PBS pH 7.4, 0.01 % ProClin300. The IgG concentration is 1 mg/ml. Spin the vial briefly before opening.

### Storage and Stability

Store the antibody at 2°-8°C. For long-term storage the antibody should be aliquoted and stored at -20°C or colder. It is recommended to avoid freeze-thaw cycles.

### Applications

#### A. Immunohistochemical/Flow Cytometry Analysis

ADG3937 is suitable for staining of formalin-fixed, paraffin-embedded tissue sections. The antibody stains both fresh frozen and formalin-fixed PMA stimulated U937 cells for flow cytometry. A 1:100 dilution (10 µg/mL concentration) is recommended.

#### B. Immunoprecipitation of uPAR

Using a 5:1 molar ratio, ADG3937 precipitates various uPAR preparations, showing a broad band between 39-66 kDa per an SDS-gel electro-phoresis, owing to the extensive glycosylations of the preparations (N-linked type). Enzymatic deglycosylation reduces this broad band to a single, sharp 29 kDa band.

#### C. Western Blot Analysis

ADG3937 is suitable for use in Western blot analysis. Under non-reducing conditions, 2 µg/mL of ADG3937 can visualize as little as 50 ng of uPAR.

### Warnings and Precautions

**Contains:** Mixture of: 5-Chloro-2-methyl-4-isothiazolin-3-one and 2-Methyl-2H-isothiazol-3-one (3:1) and Modified alkyl carboxylate (ProClin ® 300)

### Hazard pictograms



Warning

### Signal word

### Hazard statements

H317 - May cause an allergic skin reaction.

### Precautionary statements

- P280 - Wear protective gloves.
- P302 + P352 - IF ON SKIN: Wash with plenty of water.
- P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention.
- P362 - Take off contaminated clothing and wash before reuse.
- P501 - Dispose of contents/container in accordance with local/regional/ national/international regulations

### References

1. Urokinase system expression in gastric carcinoma: prognostic impact in an independent patient series and first evidence of predictive value in preoperative biopsy and intestinal metaplasia specimens. Beyer et al., Cancer. 2006 Mar 1;106(5):1026-1035.
2. uPA-Silica-Particles (SP-uPA): A Novel Analytical System to Investigate uPA-uPAR Interaction and to Test Synthetic uPAR Antagonists as Potential Cancer Therapeutics. Guthaus et al., 2002, Biol. Chem., Vol. 383, pp. 207-216.
3. Epitopes of components of the plasminogen activation system are re-exposed in formalin-fixed paraffin sections by different retrieval techniques. Ferrier CM et al., J Histochem Cytochem. 1998 Apr;46(4):469-476.
4. Semi-quantitation of urokinase plasminogen activator and its receptor in breast carcinomas by immunocyto-chemistry. Kennedy et al., Br J Cancer. 1998 May; 77(10): 1638-1641.
5. Dispace-Mediated Basal Detachment of Cultured Keratinocytes Induces Urokinase-type Plasminogen Activator (uPA) and Its Receptor (uPA-R, CD87). Schaefer et al., 1996, Exp Cell Res 228, 246-253.
6. Upregulation of Cell-Surface-Associated Plasminogen Activation in Cultured Keratinocytes by Interleukin-1b and Tumor Necrosis Factor-α. Bechtel et al., 1996. Exp Cell Res 223, 395-404.

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### Hinweis/Note:

Der Packungsbeileger dient nur als erste Information. Der relevante Packungsbeileger liegt der Ware bei.

The datasheet is for information purposes only. The current datasheet will be enclosed with product shipment.