Description

The monoclonal antibody ADG3937 (clone HD-UPAR-13.1.1) is a murine monoclonal antibody, subclass IgG1, 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)

Signal word
Warning

Hazard pictograms

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

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.

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