

Anti-uPAR (human, urokinase plasminogen activator receptor)
Mouse monoclonal antibody

Subclass: IgG1

PRODUCT NO.

MON R-3

PRESENTATION

Preparation: Protein-A purified

Content: Available in 200 µL and 1 mL volumes, 1 mg/mL

Solvent: 0.01 M phosphate buffer, pH 7.4, containing 0.5 M NaCl and 15 mM sodium azide

Storage: In the dark at 4-8°C

ANTIGEN

Urokinase plasminogen activator receptor (uPAR), also known as CD87, is a glycolipid anchored cell surface protein consisting of three homologous domains. It binds uPA with high affinity and enhances and localizes uPA catalyzed plasminogen activation, and thereby plays a key role in cancer invasion and in several tissue remodelling processes (1-3). In addition uPAR also binds to vitronectin and may thereby have biological functions independent of its role in uPA mediated proteolysis (4,5). Elevated levels of uPAR are associated with poor prognosis in many types of cancer (2,3,6,7).

IMMUNOGEN

Native human uPAR

SPECIFICITY

MON R-3 is specific for human uPAR. No cross-reactivity is observed with murine uPAR, human uPA, human tPA or human PAI-1 when tested by ELISA and immunoblotting.

EPIPOPE SPECIFICITY

MON R-3 reacts with an epitope on domain 1 and differs from that of MON R-5

REACTIVITY

MON R-3 reacts with native uPAR (8), but not with reduced protein. MON R-3 reacts with domain 1 when tested by immunoprecipitation of proteolytic fragments of recombinant suPAR. It is suitable for Western blotting of non-reduced proteins (9). MON R-3 inhibits uPAs binding to uPAR in solution and on cells. MON R-3 can be used as detection antibody in ELISA.

CULTURE MEDIUM

RPMI 1640 with 10% fetal calf serum

FUSION PARTNER

X63-Ag 8.6.5.3

IMMUNIZATION

APPLICATION

Method	Usability	Dilution guideline	References
ELISA	Yes	1/1000	7,10
Immunoblotting	Yes		9
Immunohistochemistry	Not determined		

The dilution guideline for ELISA is based on use as detection antibody. Users should determine the optimal dilutions for their own purposes.

REFERENCES

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CONDITIONS

All products are supplied on the understanding that they are for in vitro use only. The information and product are offered without guarantee as the ultimate conditions of use are beyond our control. The animals from which this product was derived have not been exposed to or inoculated with any livestock or poultry disease agents exotic to the United States or Western Europe, and did not originate from facilities where work with exotic disease agents affecting livestock or avian species is carried out.