abcam

Product datasheet

Anti-uPA Receptor/U-PAR antibody [EPR22173-257] ab221680

Recombinant RabMAb

4 Images

Overview

Product name	Anti-uPA Receptor/U-PAR antibody [EPR22173-257]
Description	Rabbit monoclonal [EPR22173-257] to uPA Receptor/U-PAR
Host species	Rabbit
Tested applications	**Suitable for:** ICC/IF, Flow Cyt, IP
Species reactivity	**Reacts with:** Human
Immunogen	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
Positive control	ICC/IF: U937 cells treated with 200 nM TPA for 72 hours. Flow Cyt: U937 cells treated with 200 nM TPA for 72 hours. IP: U937 treated with 200 nM TPA for 72 hours whole cell lysate.
General notes	This product is a recombinant monoclonal antibody, which offers several advantages including: - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information **see here**. Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR22173-257

Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab221680 in the following tested applications.

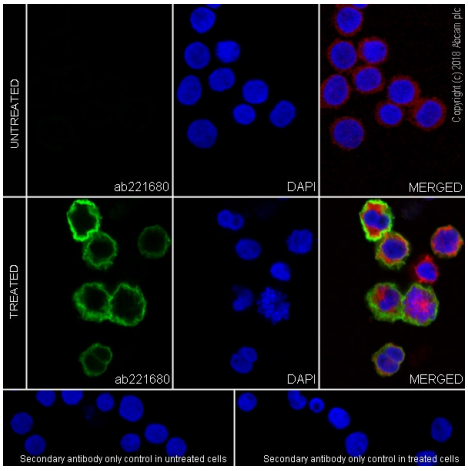
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ICC/IF		1/100.
Flow Cyt		1/500.
IP		1/30.

Target

Function	Acts as a receptor for urokinase plasminogen activator. Plays a role in localizing and promoting plasmin formation. Mediates the proteolysis-independent signal transduction activation effects of U-PA. It is subject to negative-feedback regulation by U-PA which cleaves it into an inactive form.
Tissue specificity	Expressed in neurons of the rolandic area of the brain (at protein level). Expressed in the brain.
Sequence similarities	Contains 3 UPAR/Ly6 domains.
Cellular localization	Secreted and Cell membrane.

Images



Immunocytochemistry/ Immunofluorescence - Anti-uPA Receptor/U-PAR antibody [EPR22173-257] (ab221680)

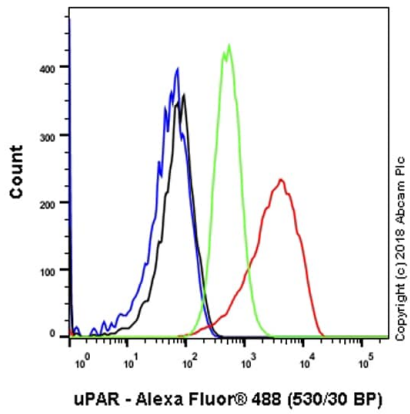
Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized U937 (human histiocytic lymphoma cell line) cells, untreated or treated with TPA (200 nM, 72 hours), labeling uPA Receptor/U-PAR with ab221680 at 1/100 dilution followed by Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) (**ab150077**) secondary antibody at 1/1000 dilution (green).

Confocal image showing membranous staining in U937 cells treated with TPA (200 nM, 72 hours).

The expression of uPA Receptor/U-PAR is induced in PMA-stimulated U937 cells (PMID:24999729).

The nuclear counterstain is DAPI (blue). Tubulin is detected with Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) (**ab195889**) (red) at 1/200 dilution.

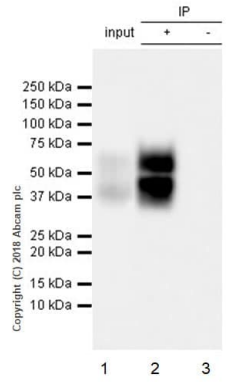
Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) (**ab150077**) secondary antibody at 1/1000 dilution.



Flow Cytometry - Anti-uPA Receptor/U-PAR antibody [EPR22173-257] (ab221680)

Flow cytometric analysis of U937 (human histiocytic lymphoma cell line) cell line treated with 200 nM TPA for 72 hours (red) or Untreated control (green) labeling uPA Receptor/U-PAR with ab221680 at 1/500 dilution compared with a Rabbit IgG, monoclonal [EPR25A] - Isotype Control (**ab172730**) (black) and an unlabeled control (cells without incubation with primary antibody and secondary antibody) (blue). Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) (**ab150077**) at 1/2000 dilution was used as the secondary antibody.

The expression of uPA Receptor/U-PAR is induced in PMA-stimulated U937 cells (PMID:24999729)



Immunoprecipitation - Anti-uPA Receptor/U-PAR antibody [EPR22173-257] (ab221680)

uPA Receptor/U-PAR was immunoprecipitated from 0.35 mg of U937 (human histiocytic lymphoma cell line) treated with 200 nM TPA for 72 hours whole cell lysate with ab221680 at 1/30 dilution. Western blot was performed from the immunoprecipitate using ab221680 at 1/1000 dilution. VeriBlot for IP Detection Reagent (HRP) (**ab131366**), was used for detection at 1/5000 dilution.

Lane 1: U937 treated with 200 nM TPA for 72 hours whole cell lysate 10 µg (Input).

Lane 2: ab221680 IP in U937 treated with 200 nM TPA for 72 hours whole cell lysate.

Lane 3: Rabbit monoclonal IgG (**ab172730**) instead of ab221680 in U937 treated with 200 nM TPA for 72 hours whole cell lysate.

Blocking/Dilution buffer: 5% NFDM/TBST.

Exposure time: 30 seconds.

The expression of uPA Receptor/U-PAR is induced in PMA-stimulated U937 cells and the molecular weight is consistent with what has been described in the literature (PMID: 24999729).

Anti-uPA Receptor/U-PAR antibody [EPR22173-257] (ab221680)

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