Product datasheet

Anti-uPA antibody [U-16] ab131433

Overview

Product name  Anti-uPA antibody [U-16]
Description  Mouse monoclonal [U-16] to uPA
Host species  Mouse
Tested applications  Suitable for: WB, ELISA, IHC-Fr, Flow Cyt
Species reactivity  Reacts with: Human
Immunogen  Native human uPA (NP_002649.1).
Epitope  ab131433 binds to the B-chain of uPA

Properties

Form  Liquid
Storage instructions  Shipped at 4°C. Store at +4°C. Store In the Dark.
Storage buffer  pH: 7.40
Preservative: 0.1% Sodium azide
Constituents: 99% PBS, 0.82% Sodium chloride
Purity  Protein G purified
Clonality  Monoclonal
Clone number  U-16
Myeloma  NS1/1-Ag4-1
Isotype  IgG1

Applications

Our Abpromise guarantee covers the use of ab131433 in the following tested applications.
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

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<td>WB</td>
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<td>Use at an assay dependent concentration. Use under non reducing condition. Predicted molecular weight: 48 kDa.</td>
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Urokinase type plasminogen activator (uPA) is secreted from cells as a precursor which is activated to the two chain form consisting of an A and B chain. The active high MW form is further processed by removal of an amino terminal fragment to an active low MW form (35 kDa). uPA is a serine protease that activates plasminogen to plasmin. High levels of uPA and plasminogen activator inhibitor type 1 (PAI 1) in breast cancer tissue extracts have been associated with rapid disease progression. The malignant phenotype of prostatic tumor cells correlates with the expression of both uPA and its cell membrane receptor (uPAR).

**Flow Cytometry - Anti-uPA antibody [U-16] (ab131433)**

Overlay histogram showing HT1080 cells stained with ab131433 (red line). The cells were fixed with 4% paraformaldehyde (10 min) and then permeabilized with 0.1% PBS-Tween for 20 min. The cells were then incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions followed by the antibody (ab131433, 1μg/1x10⁶ cells) for 30 min at 22°C. The secondary antibody used was Alexa Fluor® 488 goat anti-mouse IgG (H&L) (ab150113) at 1/2000 dilution for 30 min at 22°C. Isotype control antibody (black line) was mouse IgG1 [ICIGG1] (ab91353, 1μg/1x10⁶ cells) used under the same conditions. Unlabelled sample (blue line) was also used as a control. Acquisition of >5,000 events were collected using a 20mW Argon ion laser (488nm) and 525/30 bandpass filter. This antibody gave a positive signal in HT1080 cells fixed with 80% methanol (5 min)/permeabilized with 0.1% PBS-Tween for 20 min used under the same conditions.

**Images**

Overlay histogram showing HT1080 cells stained with ab131433 (red line). The cells were fixed with 4% paraformaldehyde (10 min) and then permeabilized with 0.1% PBS-Tween for 20 min. The cells were then incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions followed by the antibody (ab131433, 1μg/1x10⁶ cells) for 30 min at 22°C. The secondary antibody used was Alexa Fluor® 488 goat anti-mouse IgG (H&L) (ab150113) at 1/2000 dilution for 30 min at 22°C. Isotype control antibody (black line) was mouse IgG1 [ICIGG1] (ab91353, 1μg/1x10⁶ cells) used under the same conditions. Unlabelled sample (blue line) was also used as a control. Acquisition of >5,000 events were collected using a 20mW Argon ion laser (488nm) and 525/30 bandpass filter. This antibody gave a positive signal in HT1080 cells fixed with 80% methanol (5 min)/permeabilized with 0.1% PBS-Tween for 20 min used under the same conditions.

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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