abcam

Product datasheet

Anti-UBE2M antibody [EPR5333] ab109507

Recombinant RabMAb

3 References 4 Images

Overview

Product name	Anti-UBE2M antibody [EPR5333]
Description	Rabbit monoclonal [EPR5333] to UBE2M
Host species	Rabbit
Tested applications	**Suitable for:** WB, IP, IHC-P, ICC, Flow Cyt
Species reactivity	**Reacts with:** Mouse, Rat, Human
Immunogen	Synthetic peptide within Human UBE2M aa 150-250 (C terminal). The exact sequence is proprietary.
Positive control	293T and Ramos cell lysates, Human colonic adenocarcinoma and Human lung carcinoma tissues
General notes	Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMab® patents This product is a recombinant rabbit monoclonal antibody.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
Storage buffer	pH: 7.20 Preservative: 0.05% Sodium azide Constituents: 0.1% BSA, 40% Glycerol, 9.85% Tris glycine, 50% Tissue culture supernatant
Purity	Tissue culture supernatant
Clonality	Monoclonal
Clone number	EPR5333
Isotype	IgG

Applications

Our Abpromise guarantee covers the use of **ab109507** 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
WB		1/10000 - 1/50000. Detects a band of approximately 20 kDa (predicted molecular weight: 21 kDa).
IP		1/10 - 1/100.
IHC-P		1/100 - 1/250. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
ICC		1/500 - 1/1000.
Flow Cyt		1/100 - 1/1000. ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.

Target

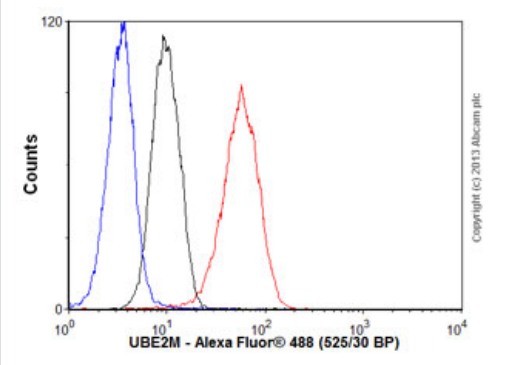
Function
Accepts the ubiquitin-like protein NEDD8 from the UBA3-NAE1 E1 complex and catalyzes its covalent attachment to other proteins. The specific interaction with the E3 ubiquitin ligase RBX1, but not RBX2, suggests that the RBX1-UBE2M complex neddylates specific target proteins, such as CUL1, CUL2, CUL3 and CUL4. Involved in cell proliferation.

Pathway
Protein modification; protein neddylation.

Sequence similarities
Belongs to the ubiquitin-conjugating enzyme family. UBC12 subfamily.

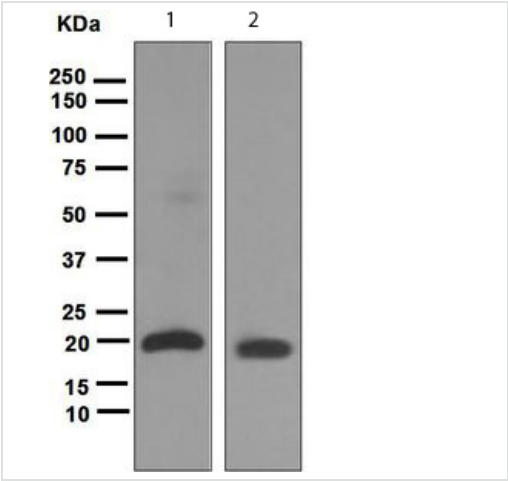
Domain
Both the N-terminal docking peptide and the catalytic core domain must bind the UBA3-NAE1 complex simultaneously for optimal transfer of NEDD8.

Images



Flow Cytometry - Anti-UBE2M antibody [EPR5333] (ab109507)

Overlay histogram showing Ramos cells stained with ab109507 (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 (ab109507, 1/1000 dilution) for 30 min at 22°C. The secondary antibody used was Alexa Fluor® 488 goat anti-rabbit IgG (H&L) (ab150077) at 1/2000 dilution for 30 min at 22°C. Isotype control antibody (black line) was rabbit IgG (monoclonal) (0.1µg/1x10^6 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 Ramos cells fixed with 80% methanol (5 min)/permeabilized with 0.1% PBS-Tween for 20 min used under the same conditions.



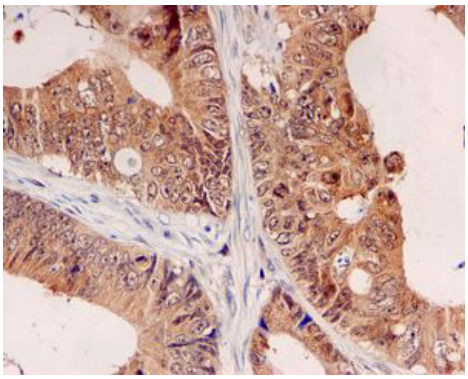
Western blot - Anti-UBE2M antibody [EPR5333] (ab109507)

All lanes : Anti-UBE2M antibody [EPR5333] (ab109507) at 1/10000 dilution

Lane 1 : 293T cell lysate
Lane 2 : Ramos cell lysate

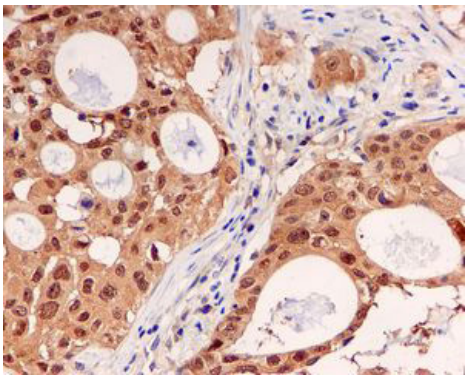
Lysates/proteins at 10 µg per lane.

Predicted band size: 21 kDa
Observed band size: 20 kDa
why is the actual band size different from the predicted?



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-UBE2M antibody [EPR5333] (ab109507)

Immunohistochemical analysis of paraffin-embedded human colonic adenocarcinoma tissue using ab109507 at a dilution of 1/100.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-UBE2M antibody [EPR5333] (ab109507)

Immunohistochemical analysis of paraffin-embedded Human lung carcinoma tissue using ab109507 at a dilution of 1/100.

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