

## Product datasheet

# Anti-UBE2M antibody [EPR5333] ab109507

Recombinant RabMAb

[2 References](#) [4 Images](#)

### Overview

<b>Product name</b>	Anti-UBE2M antibody [EPR5333]
<b>Description</b>	Rabbit monoclonal [EPR5333] to UBE2M
<b>Tested applications</b>	<b>Suitable for:</b> WB, IP, IHC-P, ICC, Flow Cyt
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Rat, Human
<b>Immunogen</b>	Synthetic peptide corresponding to residues on the C-terminus in Human UBE2M.
<b>Positive control</b>	293T and Ramos cell lysates, Human colonic adenocarcinoma and Human lung carcinoma tissues
<b>General notes</b>	This product is a recombinant rabbit monoclonal antibody. Our RabMAb <sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a>

### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
<b>Storage buffer</b>	PBS 49%, Sodium azide 0.01%, Glycerol 50%, BSA 0.05%
<b>Purity</b>	Tissue culture supernatant
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	EPR5333
<b>Isotype</b>	IgG

### Applications

Our [Abpromise guarantee](#) covers the use of **ab109507** in the following tested applications.

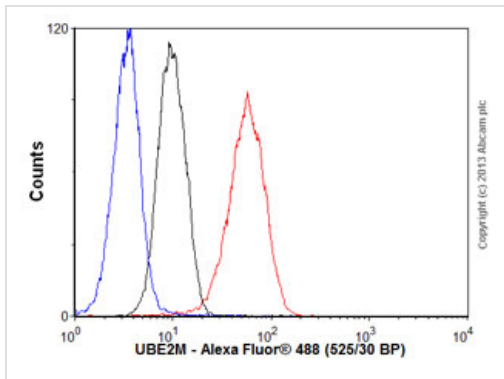
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

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. <a href="#">ab172730</a> -Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.

## Target

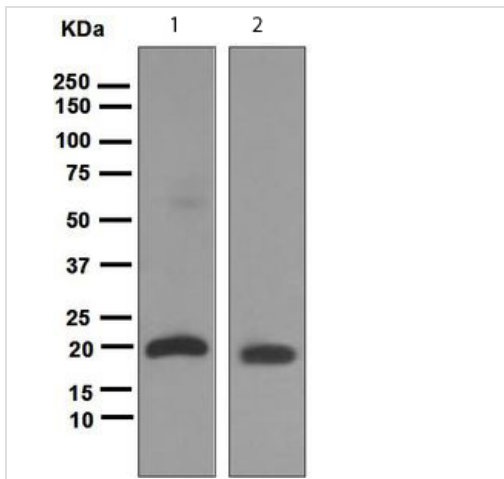
<b>Function</b>	Accepts the ubiquitin-like protein NEDD8 from the UBA3-NAE1 E1 complex and catalyzes its covalent attachment to other proteins. The specific interaction with the E3 ubiquitin ligase RBX1, but not RBX2, suggests that the RBX1-UBE2M complex neddylates specific target proteins, such as CUL1, CUL2, CUL3 and CUL4. Involved in cell proliferation.
<b>Pathway</b>	Protein modification; protein neddylation.
<b>Sequence similarities</b>	Belongs to the ubiquitin-conjugating enzyme family. UBC12 subfamily.
<b>Domain</b>	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<sup>6</sup> 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 - UBE2M antibody [EPR5333]  
(ab109507)

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

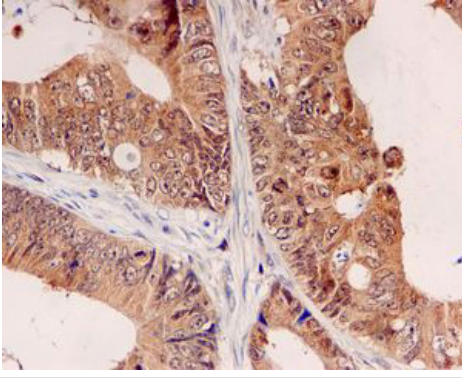
**Lane 1 :** 293T cell lysate

**Lane 2 :** Ramos cell lysate

Lysates/proteins at 10 µg per lane.

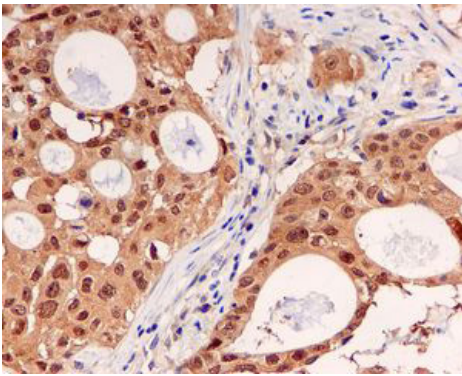
**Predicted band size :** 21 kDa

**Observed band size :** 20 kDa



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

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



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

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

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