

## Product datasheet

# Anti-Tubulin Polymerization Promoting Protein antibody [EPR3316] ab92305

リコンビナント RabMAb®

2 References 画像数 11

### 製品の概要

製品名	Anti-Tubulin Polymerization Promoting Protein antibody [EPR3316]
製品の詳細	Rabbit monoclonal [EPR3316] to Tubulin Polymerization Promoting Protein
由来種	Rabbit
アプリケーション	適用あり: WB, IHC-P, Flow Cyt, ICC/IF
種交差性	交差種: Mouse, Rat, Human
免疫原	Synthetic peptide within Human Tubulin Polymerization Promoting Protein. The exact sequence is proprietary.
ポジティブ・コントロール	Human normal brain and fetal brain tissue, Human glioma, Human, mouse and rat cerebral cortex; Mouse brain and Rat brain lysates; SH-SY5Y and Neuro-2a cells
特記事項	<p>Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb® patents</a></p> <p><b>We are constantly working hard to ensure we provide our customers with best in class antibodies. As a result of this work we are pleased to now offer this antibody in purified format. We are in the process of updating our datasheets. The purified format is designated 'PUR' on our product labels. If you have any questions regarding this update, please contact our Scientific Support team.</b></p> <p>This product is a recombinant rabbit monoclonal antibody.</p>

### 製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Avoid freeze / thaw cycle. Stable for 12 months at -20°C.
バッファー	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol, 0.05% BSA
精製度	Protein A purified
ポリ/モノ	モノクローナル

クローン名	EPR3316
アイソタイプ	IgG

## アプリケーション

Our [Abpromise guarantee](#) covers the use of **ab92305** in the following tested applications.

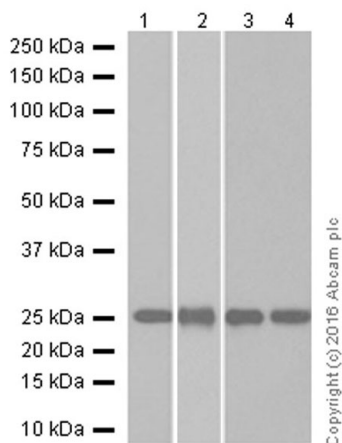
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

アプリケーション	Abreviews	特記事項
WB		1/10000. Predicted molecular weight: 24 kDa. <b>For unpurified use at 1/500 - 1/1000.</b>
IHC-P		1/50. Perform heat mediated antigen retrieval via the pressure cooker method before commencing with IHC staining protocol. See <a href="#">IHC antigen retrieval protocols</a> . <b>For unpurified use at 1/250 - 1/500.</b>
Flow Cyt		1/20 - 1/50. <a href="#">ab172730</a> - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
ICC/IF		1/100 - 1/250.

## ターゲット情報

機能	May play a role in the polymerization of tubulin into microtubules, microtubule bundling and the stabilization of existing microtubules, thus maintaining the integrity of the microtubule network. May play a role in mitotic spindle assembly and nuclear envelope breakdown.
組織特異性	Widely expressed.
配列類似性	Belongs to the TPPP family.
翻訳後修飾	Poor substrate for GSK3 (By similarity). Phosphorylated by LIMK1 on serine residues. Phosphorylation may alter the tubulin polymerization activity.
細胞内局在	Cytoplasm. Cytoplasm, cytoskeleton. Nucleus. Localizes to glial Lewy bodies in the brains of individuals with synucleinopathies.

## 画像



Western blot - Anti-Tubulin Polymerization  
Promoting Protein antibody [EPR3316] (ab92305)

**All lanes :** Anti-Tubulin Polymerization  
Promoting Protein antibody [EPR3316]  
(ab92305) at 1/10000 dilution

**Lane 1 :** Human cerebellum tissue lysate

**Lane 2 :** Mouse brain tissue lysate

**Lane 3 :** Mouse cerebral cortex tissue lysate

**Lane 4 :** Rat brain tissue lysate

Lysates/proteins at 20 µg per lane.

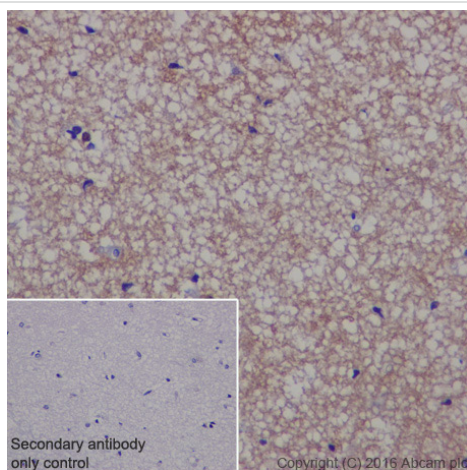
### Secondary

**All lanes :** Anti-Rabbit IgG (HRP), specific to  
the non-reduced form of IgG at 1/2000 dilution

**Predicted band size:** 24 kDa

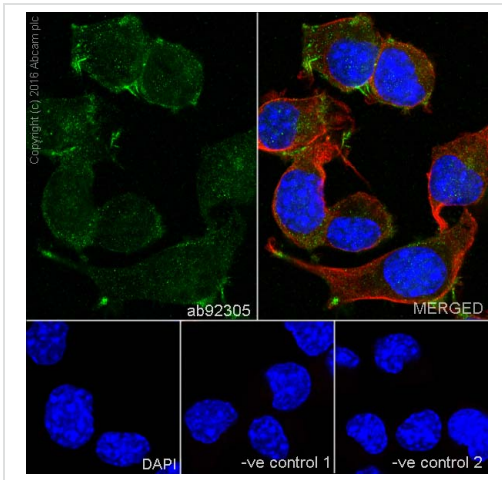
**Observed band size:** 25 kDa

Blocking/Diluting buffer 5% NFDM /TBST



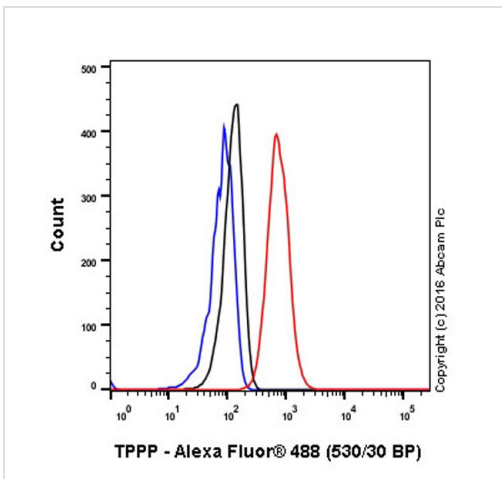
Immunohistochemistry (Formalin/PFA-fixed paraffin-  
embedded sections) - Anti-Tubulin Polymerization  
Promoting Protein antibody [EPR3316] (ab92305)

Immunohistochemical analysis of paraffin-  
embedded human cerebral cortex tissue  
sections labelling Tubulin Polymerization  
Promoting Protein with purified ab92305 at  
dilution of 1/50. The secondary antibody used  
was [ab97051](#); a goat anti-rabbit IgG H&L  
(HRP) at dilution of 1/500. The sample was  
counterstained with hematoxylin. Antigen  
retrieval was performed using EDTA Buffer;  
pH 9.0. PBS was used instead of the primary  
antibody as the negative control and is shown  
in the inset.



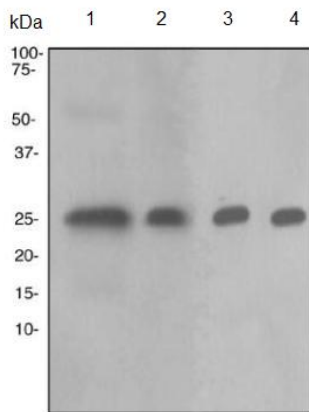
Immunocytochemistry/ Immunofluorescence - Anti-Tubulin Polymerization Promoting Protein antibody [EPR3316] (ab92305)

Immunocytochemistry/Immunofluorescence staining of Neuro-2a (mouse neuroblastoma) cells labelling Tubulin Polymerization Promoting Protein with purified ab92305 at a working dilution of 1/100. The secondary antibody was Alexa Fluor® 488 goat anti-rabbit (ab150077), used at a dilution of 1/1000. ab7291, a mouse anti-tubulin antibody (1/1000), was used to stain tubulin along with ab150120 (Alexa Fluor® 594 goat anti-mouse, 1/1000), shown in the top right hand panel. DAPI was used as nuclear counterstain. The cells were fixed in 4% Paraformaldehyde and permeabilized using 0.1% Triton X-100. The negative controls are shown in bottom middle and right hand panels - for negative control 1, rabbit primary antibody was used followed by an Alexa Fluor® 594 goat anti-mouse antibody (ab150120). For negative control 2, ab7291 (mouse anti-tubulin) was used followed by an Alexa Fluor® 488 goat anti-rabbit secondary (ab150077).



Flow Cytometry - Anti-Tubulin Polymerization Promoting Protein antibody [EPR3316] (ab92305)

Overlay histogram showing 4% paraformaldehyde fixed Neuro-2a (mouse neuroblastoma) cells labelling Tubulin Polymerization Promoting Protein with purified ab92305 at dilution of 1/20. The secondary antibody used was Alexa Fluor® 488 goat-anti-rabbit IgG at dilution of 1/2000. A non-specific IgG antibody (rabbit monoclonal) was used as isotype control (black line). The blue line shows cells without incubation with primary antibody and secondary antibody.



Western blot - Anti-Tubulin Polymerization Promoting Protein antibody [EPR3316] (ab92305)

**All lanes :** Anti-Tubulin Polymerization Promoting Protein antibody [EPR3316] (ab92305) at 1/1000 dilution

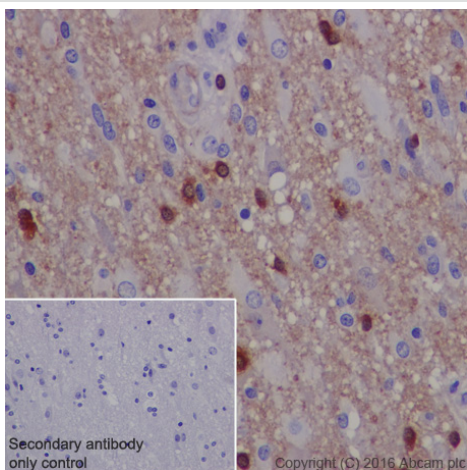
- Lane 1 :** Fetal brain lysate
- Lane 2 :** SHSY5Y cell lysate
- Lane 3 :** Mouse brain lysate
- Lane 4 :** Rat brain lysate

Lysates/proteins at 10 µg per lane.

**Secondary**

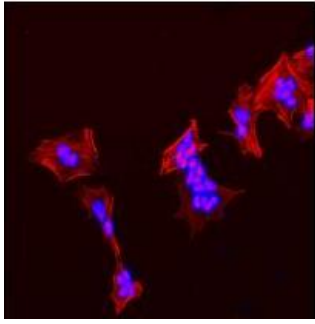
**All lanes :** HRP labelled goat anti-rabbit antibody at 1/2000 dilution

**Predicted band size:** 24 kDa



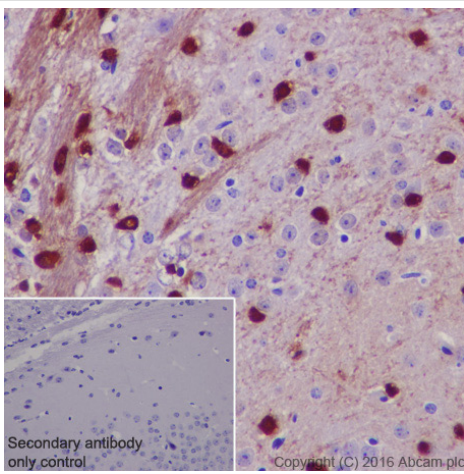
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Tubulin Polymerization Promoting Protein antibody [EPR3316] (ab92305)

Immunohistochemical analysis of paraffin-embedded human glioma tissue sections labelling Tubulin Polymerization Promoting Protein with purified ab92305 at dilution of 1/50. The secondary antibody used was [ab97051](#); a goat anti-rabbit IgG H&L (HRP) at dilution of 1/500. The sample was counterstained with hematoxylin. Antigen retrieval was performed using EDTA Buffer; pH 9.0. PBS was used instead of the primary antibody as the negative control and is shown in the inset.



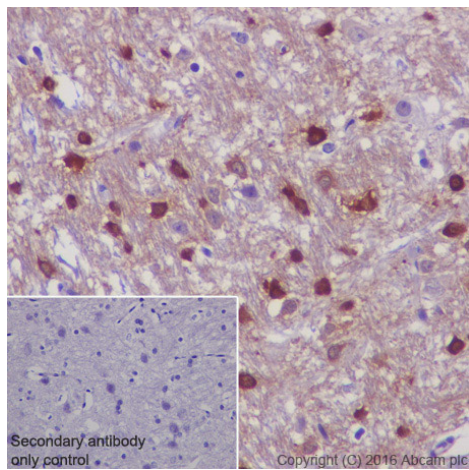
Immunocytochemistry/ Immunofluorescence - Anti-Tubulin Polymerization Promoting Protein antibody [EPR3316] (ab92305)

ab92305 at 1/100 dilution staining Tubulin Polymerization Promoting Protein in SH-SY5Y cells, by immunofluorescence.



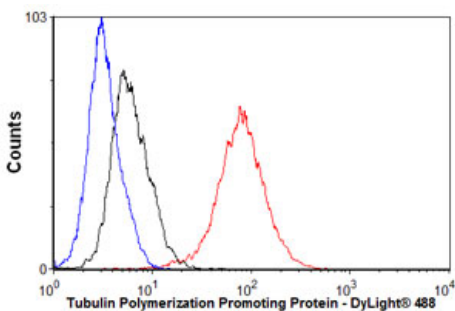
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Tubulin Polymerization Promoting Protein antibody [EPR3316] (ab92305)

Immunohistochemical analysis of paraffin-embedded mouse cerebral cortex tissue sections labelling Tubulin Polymerization Promoting Protein with purified ab92305 at dilution of 1/50. The secondary antibody used was [ab97051](#); a goat anti-rabbit IgG H&L (HRP) at dilution of 1/500. The sample was counterstained with hematoxylin. Antigen retrieval was performed using EDTA Buffer; pH 9.0. PBS was used instead of the primary antibody as the negative control and is shown in the inset.



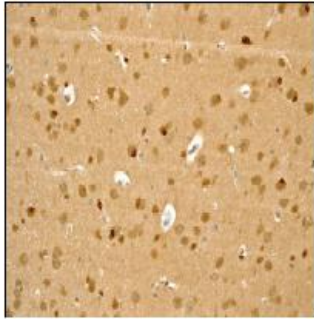
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Tubulin Polymerization Promoting Protein antibody [EPR3316] (ab92305)

Immunohistochemical analysis of paraffin-embedded rat cerebral cortex tissue sections labelling Tubulin Polymerization Promoting Protein with purified ab92305 at dilution of 1/50. The secondary antibody used was ab97051; a goat anti-rabbit IgG H&L (HRP) at dilution of 1/500. The sample was counterstained with hematoxylin. Antigen retrieval was performed using EDTA Buffer; pH 9.0. PBS was used instead of the primary antibody as the negative control and is shown in the inset.



Flow Cytometry - Anti-Tubulin Polymerization Promoting Protein antibody [EPR3316] (ab92305)

Overlay histogram showing SH-SY5Y cells stained with ab92305 (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 (ab92305, 1/100 dilution) for 30 min at 22°C. The secondary antibody used was DyLight® 488 goat anti-rabbit IgG (H+L) (ab96899) at 1/500 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.



ab92305 at 1/250 dilution staining Tubulin Polymerization Promoting Protein in paraffin-embedded Human brain tissue by immunohistochemistry.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Tubulin Polymerization Promoting Protein antibody [EPR3316] (ab92305)

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