abcam

Product datasheet

Anti-alpha Tubulin antibody [EPR13478(B)] - Loading Control ab176560

יעלאעבע RabMAb

★★★★★ 11 Abreviews 32 References 画像数 10

製品の概要

製品名 Anti-alpha Tubulin antibody [EPR13478(B)] - Loading Control

製品の詳細 Rabbit monoclonal [EPR13478(B)] to alpha Tubulin - Loading Control

由来種 Rabbit

アプリケーション 適用あり: Flow Cyt (Intra), WB, IHC-P, ICC/IF

種交差性 交差種: Human

交差が予測される動物種: Mouse, Rat, African green monkey 🔷

免疫原 Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.

ポジティブ・コントロール HeLa, Jurkat, A431 and K562 cell lysates; Human kidney and uterus tissues; A431 and Jurkat

cells.

特記事項 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**.

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 long

term. Avoid freeze / thaw cycle.

バッファー Preservative: 0.01% Sodium azide

Constituents: 40% Glycerol, PBS, 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 EPR13478(B)

アプリケーション

The Abpromise guarantee <u>Abpromise保証は、</u>次のテスト済みアプリケーションにおけるab176560の使用に適用されます アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
Flow Cyt (Intra)		1/60. For unpurified, use 1/10. <u>ab172730</u> - Rabbit monoclonal lgG, is suitable for use as an isotype control with this antibody.
WB	★★★★★ (<u>8)</u>	1/2000 - 1/10000. Predicted molecular weight: 50 kDa. For unpurified, use 1/1000 - 1/10000.
IHC-P		1/350. Perform heat mediated antigen retrieval before commencing with IHC staining protocol. See IHC antigen retrieval protocols. For unpurified, use 1/100.
ICC/IF	*** <u>*</u>	1/350. For unpurified, use 1/100.

ターゲット情報

機能

Tubulin is the major constituent of microtubules. It binds two moles of GTP, one at an exchangeable site on the beta chain and one at a non-exchangeable site on the alpha chain.

配列類似性

翻訳後修飾

Belongs to the tubulin family.

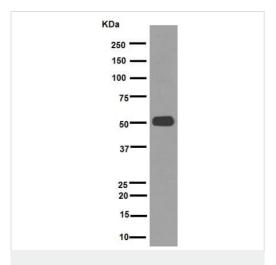
Some glutamate residues at the C-terminus are polyglutamylated. This modification occurs exclusively on glutamate residues and results in polyglutamate chains on the gamma-carboxyl group. Also monoglycylated but not polyglycylated due to the absence of functional TTLL10 in human. Monoglycylation is mainly limited to tubulin incorporated into axonemes (cilia and flagella) whereas glutamylation is prevalent in neuronal cells, centrioles, axonemes, and the mitotic spindle. Both modifications can coexist on the same protein on adjacent residues, and lowering glycylation levels increases polyglutamylation, and reciprocally. The precise function of such modifications is still unclear but they regulate the assembly and dynamics of axonemal microtubules.

Acetylation of alpha chains at Lys-40 stabilizes microtubules and affects affinity and processivity of microtubule motors. This modification has a role in multiple cellular functions, ranging from cell motility, cell cycle progression or cell differentiation to intracellular trafficking and signaling.

細胞内局在

Cytoplasm > cytoskeleton.

画像



Western blot - Anti-alpha Tubulin antibody [EPR13478(B)] - Loading Control (ab176560)

Anti-alpha Tubulin antibody [EPR13478(B)] - Loading Control (ab176560) at 1/7000 dilution (Purified) + Jurkat cell lysate at 10 µg

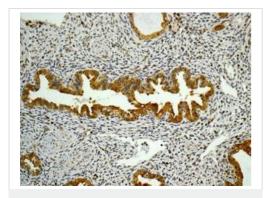
Secondary

HRP goat anti-rabbit lgG (H+L) at 1/1000 dilution

Predicted band size: 50 kDa **Observed band size:** 50 kDa

Blocking buffer: 5% NFDM/TBST

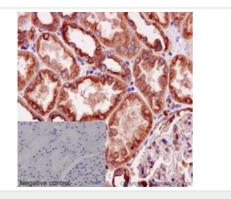
Dilution buffer: 5% NFDM/TBST



Immunohistochemistry (Formalin/PFA-fixed paraffinembedded sections) - Anti-alpha Tubulin antibody
[EPR13478(B)] - Loading Control (ab176560)

Immunohistochemical analysis of formalin-fixed, paraffin-embedded Human uterus tissue labeling alpha Tubulin with unpurified ab176560 at a 1/100 dilution.

Perform heat mediated antigen retrieval before commencing with IHC staining protocol.

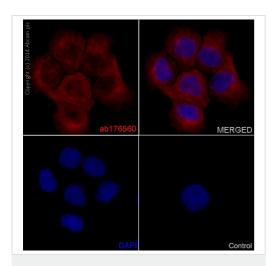


Immunohistochemistry (Formalin/PFA-fixed paraffinembedded sections) - Anti-alpha Tubulin antibody

[EPR13478(B)] - Loading Control (ab176560)

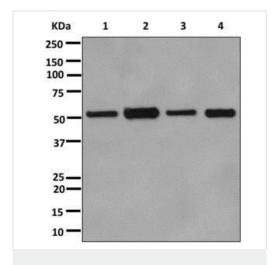
Immunohistochemical staining of paraffin embedded human kidney with purified ab176560 at a dilution of 1/350. A prediluted HRP polymer for rabbit IgG was used as the secondary and the sample was counter stained with hematoxylin. PBS was used instead of the primary antibody as the negative control, and is shown in the inset.

Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



Immunocytochemistry/ Immunofluorescence - Antialpha Tubulin antibody [EPR13478(B)] - Loading Control (ab176560)

Immunofluorescent staining of A431 cells fixed in 4% PFA with purified ab176560 at a dilution of 1/350. An Alexa Fluor[®] 555 goat anti-rabbit was used as the secondary at a dilution of 1/500 and the sample was counter stained with DAPI. An Alexa Fluor[®] 555 goat anti-mouse was used at a dilution of 1/500 as the negative control and is shown in the bottom right hand panel.



Western blot - Anti-alpha Tubulin antibody [EPR13478(B)] - Loading Control (ab176560)

All lanes : Anti-alpha Tubulin antibody [EPR13478(B)] - Loading Control (ab176560) at 1/1000 dilution (Unpurified)

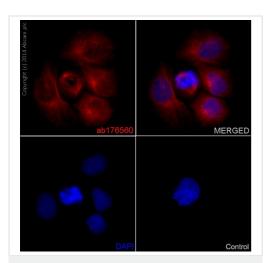
Lane 1 : HeLa cell lysate
Lane 2 : Jurkat cell lysate
Lane 3 : A431 cell lysate
Lane 4 : K562 cell lysate

Lysates/proteins at 10 µg per lane.

Developed using the ECL technique.

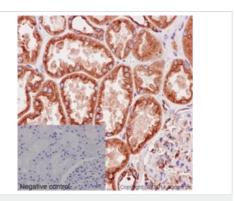
Predicted band size: 50 kDa

Secondary antibodies - anti-rabbit HRP (ab6721)



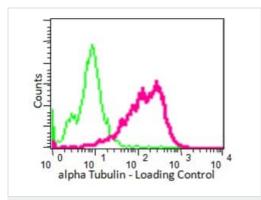
Immunocytochemistry/ Immunofluorescence - Antialpha Tubulin antibody [EPR13478(B)] - Loading Control (ab176560)

Immunofluorescent staining of A431 cells fixed in 4% PFA with unpurified ab176560 at a dilution of 1/100. An Alexa Fluor[®] 555 goat anti-rabbit was used as the secondary at a dilution of 1/500 and the sample was counter stained with DAPI. An Alexa Fluor[®] 555 goat anti-mouse was used at a dilution of 1/500 as the negative control and is shown in the bottom right hand panel.

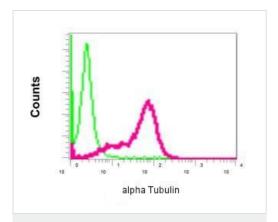


Immunohistochemistry (Formalin/PFA-fixed paraffinembedded sections) - Anti-alpha Tubulin antibody
[EPR13478(B)] - Loading Control (ab176560)

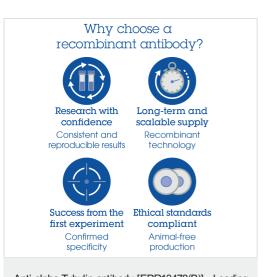
Immunohistochemical staining of paraffin embedded human kidney with unpurified ab176560 at a dilution of 1/100. A prediluted HRP polymer for rabbit IgG was used as the secondary and the sample was counter stained with hematoxylin. PBS was used instead of the primary antibody as the negative control, and is shown in the inset. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



Flow Cytometry (Intracellular) - Anti-alpha Tubulin antibody [EPR13478(B)] - Loading Control (ab176560) Intracellular Flow Cytometry analysis of permeabilized HeLa cells labeling alpha Tubulin (pink) with purifiedab176560 at a 1/70 dilution, or negative control rabbit lgG (green). The secondary antibody was FITC goat anti-rabbit.



Flow Cytometry (Intracellular) - Anti-alpha Tubulin antibody [EPR13478(B)] - Loading Control (ab176560) Intracellular Flow Cytometry analysis of permeabilized Jurkat cells labeling alpha Tubulin (red) with unpurified ab176560 at a 1/10 dilution, or negative control rabbit lgG (green)



Anti-alpha Tubulin antibody [EPR13478(B)] - Loading Control (ab176560)

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