


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

 RabMab

★★★★★ [11 Abreviews](#) [32 References](#) [10 图像](#)

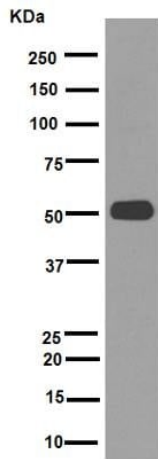
概述

产品名称	Anti-alpha Tubulin抗体[EPR13478(B)] - Loading Control
描述	兔单克隆抗体[EPR13478(B)] to alpha Tubulin - Loading Control
宿主	Rabbit
经测试应用	适用于: Flow Cyt (Intra), WB, IHC-P, ICC/IF
种属反应性	与反应: Human 预测可用于: Mouse, Rat, African green monkey 
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
阳性对照	HeLa, Jurkat, A431 and K562 cell lysates; Human kidney and uterus tissues; A431 and Jurkat cells.
常规说明	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production <p>For more information see here.</p> <p>Our RabMab[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMab[®] patents.</p>

性能

形式	Liquid
存放说明	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.
存储溶液	Preservative: 0.01% Sodium azide Constituents: 40% Glycerol, PBS, 0.05% BSA
纯度	Protein A purified
克隆	单克隆
克隆编号	EPR13478(B)

同种型	IgG	
应用		
<div>The Abpromise guarantee</div> <div><u>Abpromise™</u>承诺保证使用ab176560于以下的经测试应用</div> <div>“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。</div>		
应用	Ab评论	说明
Flow Cyt (Intra)		1/60. For unpurified, use 1/10. ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
WB	★★★★★ (8)	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 <u>IHC antigen retrieval protocols</u> . For unpurified, use 1/100.
ICC/IF	★★★★★ (2)	1/350. For unpurified, use 1/100.
靶标		
功能	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.	
序列相似性	Belongs to the tubulin family.	
翻译后修饰	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 TTL10 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 polyglutamylated, 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.	
细胞定位	Cytoplasm > cytoskeleton.	
图片		



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

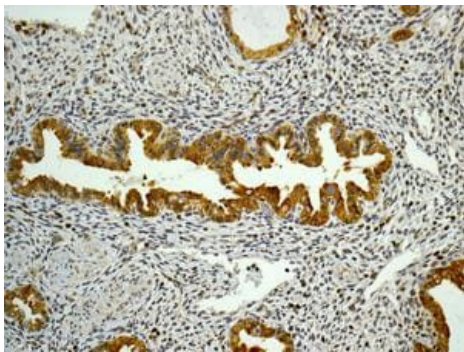
HRP goat anti-rabbit IgG (H+L) at 1/1000 dilution

Predicted band size: 50 kDa

Observed band size: 50 kDa

Blocking buffer: 5% NFDM/TBST

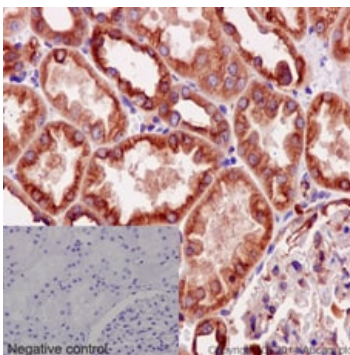
Dilution buffer: 5% NFDM/TBST



Immunohistochemistry (Formalin/PFA-fixed paraffin-
embedded 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.

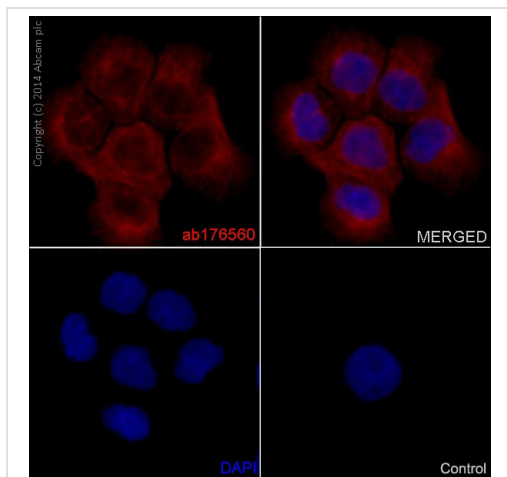
Perform heat mediated antigen retrieval before commencing with
IHC staining protocol.



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

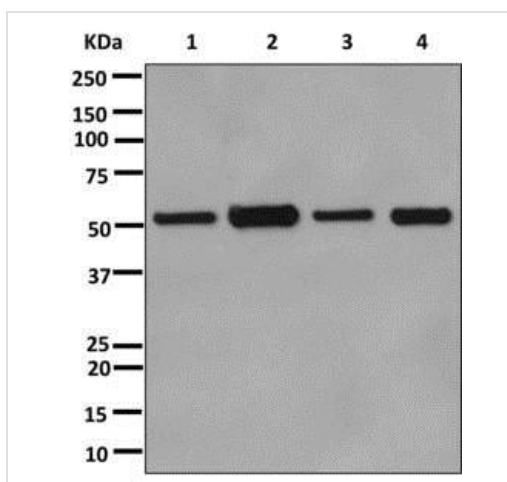
Immunohistochemical staining of paraffin embedded human kidney
with purified ab176560 at a dilution of 1/350. A prediluted HRP
polymer for rabbit IgG was used as the secondary and the sample
was counter stained with hematoxylin. PBS was used instead of the
primary antibody as the negative control, and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

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



Immunocytochemistry/ Immunofluorescence - Anti-alpha 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

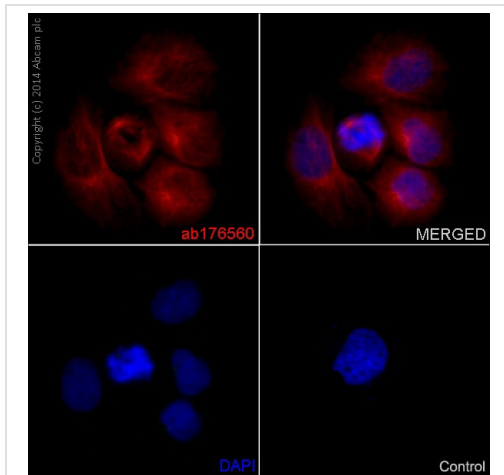
Lane 4 : K562 cell lysate

Lysates/proteins at 10 µg per lane.

Developed using the ECL technique.

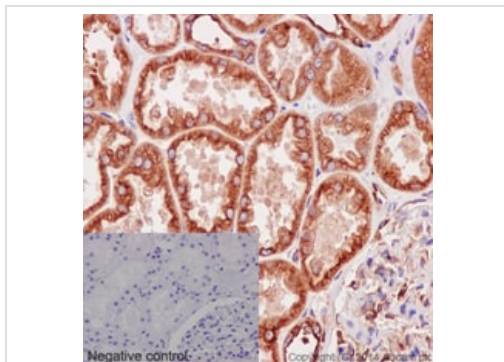
Predicted band size: 50 kDa

Secondary antibodies - anti-rabbit HRP (ab6721)



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

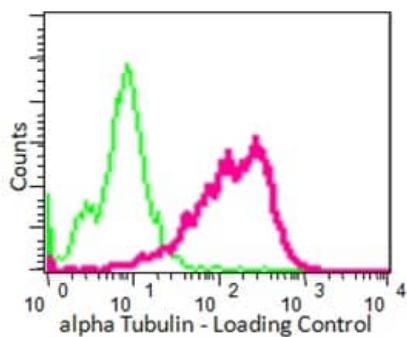
Immunofluorescent staining of A431 cells fixed in 4% PFA with unpurified ab176560 at a dilution of 1/100. An Alexa Fluor® 555 goat anti-rabbit was used as the secondary at a dilution of 1/500 and the sample was counter stained with DAPI. An Alexa Fluor® 555 goat anti-mouse was used at a dilution of 1/500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



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

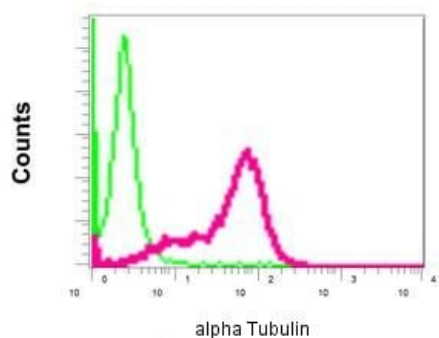
Immunohistochemical staining of paraffin embedded human kidney with unpurified ab176560 at a dilution of 1/100. A prediluted HRP polymer for rabbit IgG was used as the secondary and the sample was counter stained with hematoxylin. PBS was used instead of the primary antibody as the negative control,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

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



Intracellular Flow Cytometry analysis of permeabilized HeLa cells labeling alpha Tubulin (pink) with purified ab176560 at a 1/70 dilution, or negative control rabbit IgG (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 IgG (green)

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

Why choose a recombinant antibody?



Research with confidence
Consistent and reproducible results



Long-term and scalable supply
Recombinant technology



Success from the first experiment
Confirmed specificity



Ethical standards compliant
Animal-free production

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

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