abcam

Product datasheet

HRP Anti-beta Tubulin antibody - Loading Control ab21058

★★★★★ 4 Abreviews 103 References 3 图像

概述

产品名称 HRP Anti-beta Tubulin抗体- Loading Control

描述 HRP兔多克隆抗体to beta Tubulin - Loading Control

宿主 Rabbit **偶联物** HRP

适用于: WB, IHC-P

种属反应性 与反应: Mouse, Rat, Human

预测**可用于:** Chicken, Cow, Pig, Xenopus laevis, Chimpanzee, Zebrafish 🐣

免疫原 Synthetic peptide corresponding to Human beta Tubulin aa 1-100 conjugated to keyhole limpet

haemocyanin.

(Peptide available as ab20775)

常规说明

The Life Science industry has been in the grips of a reproducibility crisis for a number of years.

Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets

your needs before purchasing.

If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be

found below, along with publications, customer reviews and Q&As

性能

形式 Liquid

存放说明 Shipped at 4°C. Store at +4°C short term (1-2 weeks). Store at -20°C. Avoid freeze / thaw cycle.

Store In the Dark.

存储溶液 pH: 7.40

Preservative: 0.1% Proclin 300 Solution

Constituents: PBS, 1% BSA, 30% Glycerol (glycerin, glycerine)

纯**度** Immunogen affinity purified

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The Abpromise guarantee

Abpromise™承诺保证使用ab21058于以下的经测试应用

"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。

应用	Ab评论	说明
WB	*** <u>*</u>	1/1000. Detects a band of approximately 50 kDa (predicted molecular weight: 50 kDa).
IHC-P		1/100. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

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.

组织**特异性** Ubiquitously expressed with highest levels in spleen, thymus and immature brain.

疾病相关 Cortical dysplasia, complex, with other brain malformations 6

Skin creases, congenital symmetric circumferential, 1

序列相似性 Belongs to the tubulin family.

结**构域** The highly acidic C-terminal region may bind cations such as calcium.

翻译后修饰 Some glutamate residues at the C-terminus are polyglutamylated, resulting in polyglutamate

chains on the gamma-carboxyl group (PubMed:26875866). Polyglutamylation plays a key role in microtubule severing by spastin (SPAST). SPAST preferentially recognizes and acts on

microtubules decorated with short polyglutamate tails: severing activity by SPAST increases as

the number of glutamates per tubulin rises from one to eight, but decreases beyond this

glutamylation threshold (PubMed:26875866).

Some glutamate residues at the C-terminus are 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). Both polyglutamylation and monoglycylation can coexist on the same protein on adjacent residues, and lowering glycylation levels increases polyglutamylation,

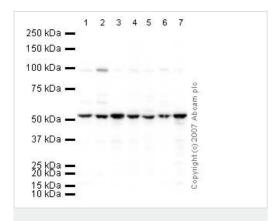
and reciprocally. The precise function of monoglycylation is still unclear.

Phosphorylated on Ser-172 by CDK1 during the cell cycle, from metaphase to telophase, but not

in interphase. This phosphorylation inhibits tubulin incorporation into microtubules.

细胞定位 Cytoplasm, cytoskeleton.

图片



Western blot - HRP Anti-beta Tubulin antibody - Loading Control (ab21058)

All lanes : HRP Anti-beta Tubulin antibody - Loading Control (ab21058) at 1 μ g/ml

Lane 1: NIH/3T3 whole cell lysate (ab7179)

Lane 2: MEF1 (Mouse embryonic fibroblast cell line) Whole Cell Lysate

Lane 3: Brain (Mouse) Tissue Lysate

Lane 4: Spinal Cord (Mouse) Tissue Lysate

Lane 5 : Ovary (Mouse) Tissue Lysate - normal tissue

Lane 6: PC12 (Rat adrenal pheochromocytoma cell line) Whole

Cell Lysate

Lane 7: Brain (Rat) Tissue Lysate - normal tissue

Lysates/proteins at 10 µg per lane.

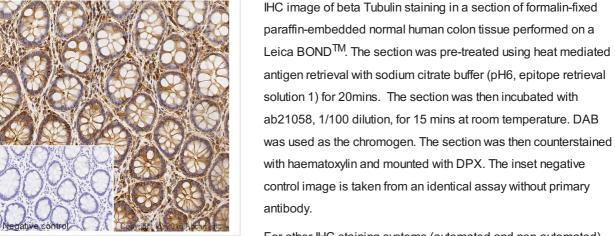
Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 50 kDa **Observed band size:** 51 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffinembedded sections) - HRP Anti-beta Tubulin antibody - Loading Control (ab21058)



For other IHC staining systems (automated and non-automated) customers should optimize variable parameters such as antigen retrieval conditions, primary antibody concentration and antibody incubation times.

*Tissue obtained from the Human Research Tissue Bank. supported by the NIHR Cambridge Biomedical Research Centre



Western blot - HRP Anti-beta Tubulin antibody -Loading Control (ab21058)

All lanes: HRP Anti-beta Tubulin antibody - Loading Control (ab21058) at 1/1000 dilution

Lane 1: HeLa (Human epithelial carcinoma cell line) Whole Cell Lysate

Lane 2: A-431 whole cell lysate (ab7909)

Lysates/proteins at 20 µg per lane.

Developed using the ECL technique.

Performed under reducing conditions.

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

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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