abcam

Product datasheet

HRP Anti-Tubulin antibody [YOL1/34] - Microtubule Marker ab196583

★★★★★ 1 Abreviews 1 References 画像数 1

製品の概要

製品名	HRP Anti-Tubulin antibody [YOL1/34] - Microtubule Marker
製品の詳細	HRP Rat monoclonal [YOL1/34] to Tubulin - Microtubule Marker
由来種	Rat
標識	HRP
アプリケーション	**適用あり:** WB
種交差性	**交差種:** Mouse, Rat, Human **交差が予測される動物種:** Saccharomyces cerevisiae, Schizosaccharomyces pombe
免疫原	Full length native protein (purified) corresponding to Saccharomyces cerevisiae Tubulin.
ポジティブ・コントロール	WB: HeLa and NIH3T3 whole cell lysates. Rat Brain tissue lysate.
特記事項	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

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. Store In the Dark.
バッファー	pH: 7.40 Preservative: 0.1% Proclin 300 Solution Constituents: 30% Glycerol (glycerin, glycerine), 1% BSA, PBS
精製度	Affinity purified
ポリ/モノ	モノクローナル
クローン名	YOL1/34

アイソタイプ	IgG2a

アプリケーション

The Abpromise guarantee **Abpromise保証は、次のテスト済みアプリケーションにおけるab196583の使用に適用されます**

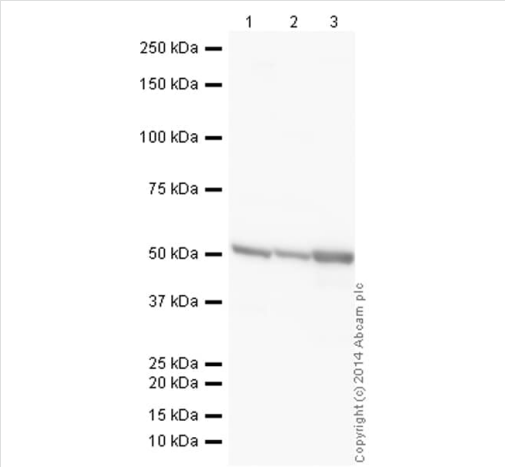
アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
WB	★★★★★ (1)	1/5000. Detects a band of approximately 50 kDa (predicted molecular weight: 50 kDa).

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	Belongs to the tubulin family.
翻訳後修飾	Undergoes a tyrosination/detyrosination cycle, the cyclic removal and re-addition of a C-terminal tyrosine residue by the enzymes tubulin tyrosine carboxypeptidase (TTCP) and tubulin tyrosine ligase (TTL), respectively. 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-tubulins 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 - HRP Anti-Tubulin antibody [YOL1/34] - Microtubule Marker (ab196583)

All lanes : HRP Anti-Tubulin antibody [YOL1/34] - Microtubule Marker (ab196583) at 1/5000 dilution

Lane 1 : HeLa whole cell lysate (**ab150035**)
Lane 2 : NIH 3T3 (Mouse embryonic fibroblast cell line) Whole Cell Lysate
Lane 3 : Brain (Rat) Tissue Lysate

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

Exposure time: 2 seconds

This blot was produced using a 4-12% Bis-tris gel under the MOPS buffer system. The gel was run at 200V for 50 minutes before being transferred onto a Nitrocellulose membrane at 30V for 70 minutes. The membrane was then blocked for an hour using 2% Bovine Serum Albumin before being incubated with ab196583 overnight at 4°C. Antibody binding was visualised using ECL development solution **ab133406**.

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