abcam

Product datasheet

Anti-beta III Tubulin (phospho S172) antibody ab76286

1 Abreviews 4 References 画像数 2

製品の概要

製品名	Anti-beta III Tubulin (phospho S172) antibody
製品の詳細	Rabbit polyclonal to beta III Tubulin (phospho S172)
由来種	Rabbit
特異性	The ab76286 sequence is identical to similar regions in bI, bII, and bIII tubulin isotypes.
アプリケーション	**適用あり:** ICC/IF, WB
種交差性	**交差種:** Mouse, Human **交差が予測される動物種:** a wide range of other species
免疫原	Synthetic peptide corresponding to Human beta III Tubulin (phospho S172) conjugated to keyhole limpet haemocyanin.
ポジティブ・コントロール	C2C12 cells; purified brain tubulin treated with ERK2 kinase.
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 -20°C. Stable for 12 months at -20°C.
バッファー	Preservative: 0.05% Sodium azide Constituents: 0.1% BSA, 50% Glycerol, PBS
精製度	Immunogen affinity purified
特記事項（精製）	ab76286 was cross adsorbed to unphosphorylated beta III Tubulin (Ser 172) peptide before affinity purification using phospho beta III Tubulin (Ser 172) peptide (without carrier).
ポリ/モノ	ポリクローナル
アイソタイプ	IgG

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ab76286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
ICC/IF		1/100.
WB		1/1000. Predicted molecular weight: 38 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. TUBB3 plays a critical role in proper axon guidance and mantainance.

組織特異性 Expression is primarily restricted to central and peripheral nervous system.

関連疾患 Defects in TUBB3 are the cause of congenital fibrosis of extraocular muscles type 3A (CFEOM3A) [MIM:600638]. A congenital ocular motility disorder marked by restrictive ophthalmoplegia affecting extraocular muscles innervated by the oculomotor and/or trochlear nerves. It is clinically characterized by anchoring of the eyes in downward gaze, ptosis, and backward tilt of the head. Congenital fibrosis of extraocular muscles type 3 presents as a non-progressive, autosomal dominant disorder with variable expression. Patients may be bilaterally or unilaterally affected, and their oculo-motility defects range from complete ophthalmoplegia (with the eyes fixed in a hypo- and exotropic position), to mild asymptomatic restrictions of ocular movement. Ptosis, refractive error, amblyopia, and compensatory head positions are associated with the more severe forms of the disorder. In some cases the ocular phenotype is accompanied by additional features including developmental delay, corpus callosum agenesis, basal ganglia dysmorphism, facial weakness, polyneuropathy.

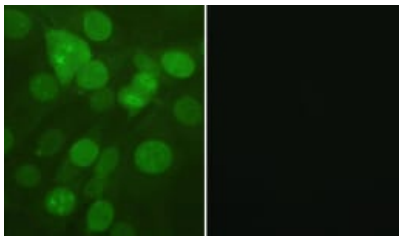
配列類似性 Belongs to the tubulin family.

ドメイン The highly acidic C-terminal region may bind cations such as calcium.

翻訳後修飾 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.

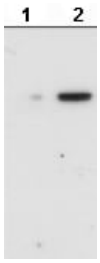
細胞内局在 Cytoplasm > cytoskeleton.

画像



Immunocytochemistry/ Immunofluorescence - Anti-beta III Tubulin (phospho S172) antibody (ab76286)

ab76286, at a 1/100 dilution, staining beta III Tubulin in C2C12 cells by Immunoflurescence.
Image 1: untreated.
Image 2: in the presence of the phospho peptide.



Western blot - Anti-beta III Tubulin (phospho S172) antibody (ab76286)

All lanes : Anti-beta III Tubulin (phospho S172) antibody (ab76286) at 1/1000 dilution

Lane 1 : Purified human brain tubulin, untreated
Lane 2 : Purified human brain tubulin, treated with ERK2 kinase to phosphorylate
Ser 172

Predicted band size: 38 kDa
Observed band size: 50 kDa

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