abcam

Product datasheet

Anti-beta III Tubulin (phospho S172) antibody ab76286

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概述

产品名称	Anti-beta III Tubulin (phospho S172)**抗体**
描述	**兔多克隆抗体**to beta III Tubulin (phospho S172)
宿主	Rabbit
特异性	The ab76286 sequence is identical to similar regions in bI, bII, and bIII tubulin isotypes.
经测试应用	**适用于:** ICC/IF, WB
种属反应性	**与反应:** Mouse, Human **预测可用于:** a wide range of other species
免疫原	Synthetic peptide corresponding to Human beta III Tubulin (phospho S172) conjugated to keyhole limpet haemocyanin.
阳性对照	C2C12 cells; purified brain tubulin treated with ERK2 kinase.
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 -20°C. Stable for 12 months at -20°C.
存储溶液	Preservative: 0.05% Sodium azide Constituents: 0.1% BSA, 50% Glycerol, PBS
纯度	Immunogen affinity purified
纯化说明	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).
克隆	**多克隆**
同种型	IgG

应用

The Abpromise guarantee **Abpromise™承诺保证使用ab76286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
ICC/IF		1/100.
WB		1/1000. Predicted molecular weight: 38 kDa.

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. TUBB3 plays a critical role in proper axon guidance and mantainance.

组织特异性 Expression is primarily restricted to central and peripheral nervous system.

疾病相关 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.

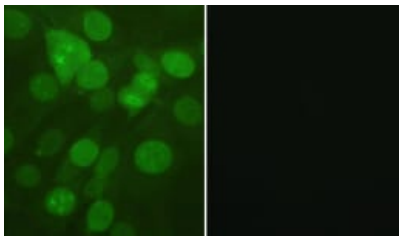
序列相似性 Belongs to the tubulin family.

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. 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.

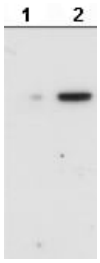
细胞定位 Cytoplasm > cytoskeleton.

图片



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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