

Cy3[®] Anti-beta Tubulin antibody [TUB 2.1] ab11309

★★★★★ [11 Abreviews](#) [10 References](#) [1 图像](#)

概述

产品名称	Cy3 [®] Anti-beta Tubulin抗体[TUB 2.1]
描述	Cy3 [®] 小鼠单克隆抗体[TUB 2.1] to beta Tubulin
宿主	Mouse
偶联物	Cy3 [®] . Ex: 552nm, Em: 565nm
经测试应用	适用于: ICC/IF
种属反应性	与反应: Chicken
免疫原	Full length protein corresponding to beta Tubulin. Purified rat brain tubulin.
表位	Ab11309 specifically recognizes an epitope in the carboxy-terminal part of beta-tubulin (between amino acids 281-446).
阳性对照	Cultured chicken fibroblasts.
常规说明	If slight turbidity occurs upon prolonged storage, clarify the solution by centrifugation before use. The product is prepared by conjugation of Cy3 to purified monoclonal anti-beta-tubulin antibody. The conjugate is purified by gel filtration to remove unbound Cy3 fluorophore. F/P Molar Ratio: (Cy3:Ab) 3 to 9. This product or portions thereof is manufactured under license from Carnegie Mellon University under U.S. Patent Number 5, 268, 486 and related patents. Cy [®] and CyDye [®] are trademarks of Cytiva.

性能

形式	Liquid
存放说明	Shipped at 4°C. Store at +4°C.
存储溶液	pH: 7.40 Preservative: 0.097% Sodium azide Constituents: 0.0268% PBS, 1% BSA
纯度	Proprietary Purification
克隆	单克隆
克隆编号	TUB 2.1
同种型	IgG1

应用

The Abpromise guarantee **Abpromise™**承诺保证使用ab11309于以下的经测试应用

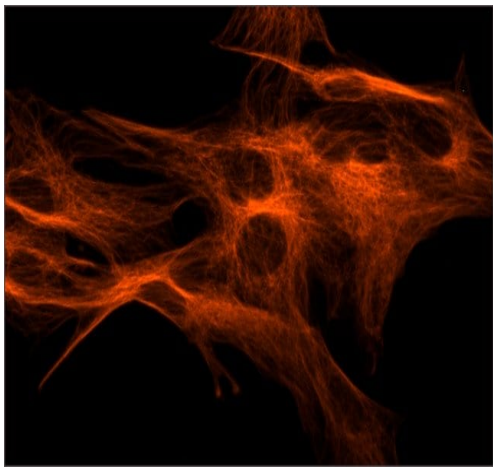
“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
ICC/IF	★★★★★ (3)	1/200.

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.
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 TTL10 in human. Monoglycylation is mainly limited to tubulin incorporated into axonemes (cilia and flagella). Both polyglutamylated and monoglycylated can coexist on the same protein on adjacent residues, and lowering glycylation levels increases polyglutamylated, 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



Immunofluorescent analysis of methanol fixed, acetone permeabilized chicken fibroblast cells labelling beta-Tubulin-Cy3 using ab11309 at 1/200 dilution.

Immunocytochemistry/ Immunofluorescence - Cy3 ©
Anti-beta Tubulin antibody [TUB 2.1] (ab11309)

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