



FITC Anti-beta III Tubulin antibody [TU-20] ab25770

7 References [画像数 1](#)

製品の概要

製品名	FITC Anti-beta III Tubulin antibody [TU-20]
製品の詳細	FITC Mouse monoclonal [TU-20] to beta III Tubulin
由来種	Mouse
標識	FITC. Ex: 493nm, Em: 528nm
特異性	This antibody recognizes the peptide sequence ESESQGPK (amino acids 441-448) of human class III beta tubulin specific for neurones.
アプリケーション	適用あり: ICC, IHC-Fr
種交差性	交差種: Mouse
免疫原	Synthetic peptide corresponding to Human beta III Tubulin aa 400-500 (N terminal) conjugated to keyhole limpet haemocyanin (Cysteine residue). Database link: Q13509
	 Run BLAST with  Run BLAST with
ポジティブ・コントロール	ICC: Neuro2a cell line
特記事項	<p>The purified antibody is conjugated with Fluorescein isothiocyanate (FITC) under optimum conditions. The reagent is free of unconjugated FITC.</p> <p>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.</p> <p>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</p>

製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Store at +4°C.
バッファー	pH: 7.40 Preservative: 0.097% Sodium azide Constituent: 99.9% PBS
精製度	Size exclusion

特記事項(精製)	Purity >95% by SDS-PAGE.
ポリ/モノ	モノクローナル
クローン名	TU-20
アイソタイプ	IgG1

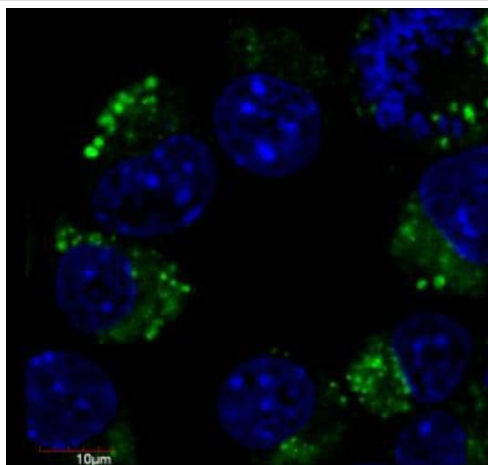
アプリケーション

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ab25770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		Use a concentration of 1 µg/ml.
IHC-Fr		Use at an assay dependent concentration.

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 maintenance.
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 TTL10 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.



Immunocytochemistry - FITC Anti-beta III Tubulin antibody [TU-20] (ab25770)

Immunocytochemistry analysis of mouse Neuro2a cell line staining beta III Tubulin with ab25770 at 1 µg/ ml concentration (green), and nuclear staining with DAPI (blue).

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