

## Product datasheet

# Anti-beta III Tubulin antibody ab76288

1 References [画像数 1](#)

### 製品の概要

製品名	Anti-beta III Tubulin antibody
製品の詳細	Rabbit polyclonal to beta III Tubulin
特異性	ab76288 is not predicted to react with beta I or beta II Tubulins.
アプリケーション	<b>適用あり:</b> WB, ELISA, ICC/IF
種交差性	<b>交差種:</b> Mouse, Human <b>交差が予測される動物種:</b> Rat
免疫原	Synthetic non phospho peptide corresponding to amino acid residues around serine 444 of human beta III Tubulin conjugated to KLH
ポジティブ・コントロール	Mouse brain tissue; purified brain tubulin.

### 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: 50% Glycerol, PBS, 1mg/ml BSA
精製度	Immunogen affinity purified
特記事項(精製)	ab76288 was cross adsorbed to phospho beta III Tubulin (Ser 444) peptide before affinity purification using unphosphorylated beta III Tubulin (Ser 444) 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

Our [Abpromise guarantee](#) covers the use of **ab76288** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

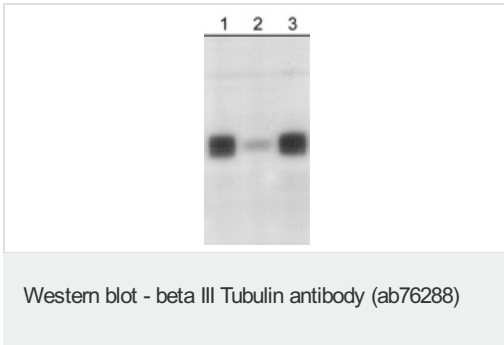
アプリケーション	Abreviews	特記事項
WB		1/1000. Predicted molecular weight: 50 kDa.

アプリケーション	Abreviews	特記事項
ELISA		1/2000.
ICC/IF		1/100.

## 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 TLL10 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 polyglutamylated, 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



**All lanes :** Anti-beta III Tubulin antibody (ab76288) at 1/1000 dilution

**Lane 1 :** mouse brain lysate

**Lane 2 :** mouse brain lysate with unphosphorylated beta III Tublin (Ser 444) peptide

**Lane 3 :** mouse brain lysate with phospho beta III Tublin (Ser 444) peptide

**Predicted band size :** 50 kDa

**Observed band size :** 50 kDa

**Please note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

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