

Datasheet: MCA4753

Description:	MOUSE ANTI RAT TUBULIN BETA 3
Specificity:	TUBULIN BETA 3
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	AA10
Isotype:	IgG
Quantity:	0.1 ml

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry			▪	
Immunohistology - Frozen	▪			1/1000
Immunohistology - Paraffin	▪			1/1000
ELISA			▪	
Immunoprecipitation			▪	
Western Blotting	▪			1/10000

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

Target Species	Rat
Species Cross Reactivity	Based on sequence similarity, is expected to react with: Broad N.B. Antibody reactivity and working conditions may vary between species.
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant
Buffer Solution	10mM HEPES, pH7.5, 150mM NaCl
Preservative	0.09% Sodium Azide (NaN ₃)
Stabilisers	0.01% Bovine Serum Albumin 50% Glycerol
Immunogen	Synthetic peptide corresponding to Tubulin Beta 3.
External Database Links	UniProt: Q4QRB4 Related reagents

Entrez Gene:[246118](#) [Tubb3](#) [Related reagents](#)

Specificity	Mouse anti Rat Tubulin beta 3 antibody, clone AA10 recognizes tubulin beta 3. Dimers of alpha and beta tubulin bind to two GTP molecules and assemble into microtubules. The GTP bound to the beta tubulin subunit eventually hydrolyses into GDP. This GTP cycle is essential for microtubule stability, as dimers bound to GTP tend to assemble into microtubules, whereas dimers bound to GDP tend to be unstable. The tubulin beta 3 chain (also known as neuron-specific class III beta-tubulin) are found exclusively in neurons and serves as a neuronal marker. It has also been found in tumors of neuronal origin.
Western Blotting	MCA4753 detects a band of approximately 55kDa in rat cortex lysate.
References	1. Dráberová, E. <i>et al.</i> (1998) Expression of class III beta-tubulin in normal and neoplastic human tissues. Histochem Cell Biol. 109 (3): 231-9.
Storage	Store at +4°C or at -20°C if preferred. Storage in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.
Shelf Life	18 months from date of despatch.
Health And Safety Information	Material Safety Datasheet documentation available at: Material Safety Datasheet Documentation #10088 available at: https://www.bio-rad-antibodies.com/uploads/MSDS/10088.pdf
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR76...)	RPE
Goat Anti Mouse IgG IgA IgM (STAR87...)	Alk. Phos. , HRP
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos. , DyLight@488 , DyLight@549 , DyLight@649 , DyLight@680 , DyLight@800 , FITC , HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (STAR77...)	HRP
Rabbit Anti Mouse IgG (STAR12...)	RPE
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP
Rabbit Anti Mouse IgG (STAR8...)	DyLight@800
Goat Anti Mouse IgG (STAR70...)	FITC
Human Anti Mouse IgG2a (HCA037...)	FITC , HRP
Rabbit Anti Mouse IgG (STAR13...)	HRP
Human Anti Mouse IgG1 (HCA036...)	HRP
Human Anti Mouse IgG2b (HCA038...)	FITC , HRP
Human Anti Mouse IgG3 (HCA039...)	FITC , HRP , RPE

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA1209\)](#)

[MOUSE IgG2b NEGATIVE CONTROL \(MCA691\)](#)

[MOUSE IgG2a NEGATIVE CONTROL \(MCA1210\)](#)

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