

Datasheet: MCA4593Z

Description:	MOUSE ANTI HUMAN TUBULIN BETA CHAIN:Preservative Free
Specificity:	TUBULIN BETA CHAIN
Other names:	TUBB
Format:	Preservative Free
Product Type:	Monoclonal Antibody
Clone:	3B3
Isotype:	IgG2a
Quantity:	0.1 mg

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			▪	
Immunohistology - Paraffin			▪	
ELISA			▪	
Immunoprecipitation			▪	
Western Blotting	▪			0.1 - 10 ug/ml

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	Human
Species Cross Reactivity	Reacts with: Mouse 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 A
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	None present
Approx. Protein Concentrations	IgG concentration 0.5 mg/ml
Immunogen	Recombinant protein with a GST tag corresponding to amino acids 1-445 of human TUBB

**External Database
Links**

UniProt:
[P07437](#) [Related reagents](#)

Entrez Gene:
[203068](#) TUBB [Related reagents](#)

Synonyms

TUBB5

Fusion Partners

Spleen cells from BALB/c mice were fused with cells from the Sp2/0 myeloma cell line.

Specificity

Mouse anti Human tubulin beta chain antibody, clone 3B3 recognizes human tubulin beta chain, also known as TUBB or Tubulin beta-5 chain. Tubulin beta chain is a 444 amino acid ~50 kDa cytoskeletal protein.

The most common members of the tubulin family are α -tubulin and β -tubulin, the proteins that make up microtubules. To form microtubules, the dimers of α - and β -tubulin bind to GTP and assemble onto the ends of microtubules while in the GTP-bound state. After being incorporated into the microtubule, the bound molecule of GTP will hydrolyse into GDP. TUBB is a subtype of human β -tubulin and is ubiquitously expressed with the highest levels present in spleen, thymus and immature brain.

Mutations in the TUBB gene can lead to the development of Cortical dysplasia, complex, with other brain malformations 6 ([CDCBM6](#)), a condition of defective neuronal migration and axonal guidance characterized by microcephaly, ataxia, and severe delayed psychomotor development ([Breuss et al. 2012](#)).

Western Blotting

MCA4593Z detects a band of approximately 48 kDa in Y-79 cell lysates

Storage

Store at -20°C only.
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 #10162 available at:
<https://www.bio-rad-antibodies.com/uploads/MSDS/10162.pdf>

Regulatory

For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR77...)	HRP
Rabbit Anti Mouse IgG (STAR13...)	HRP
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP
Rabbit Anti Mouse IgG (STAR8...)	DyLight@800
Goat Anti Mouse IgG (STAR76...)	RPE

Rabbit Anti Mouse IgG (STAR12...) [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](#)
Human Anti Mouse IgG2a (HCA037...) [FITC](#), [HRP](#)
Goat Anti Mouse IgG (STAR70...) [FITC](#)

North & South America	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: antibody_sales_us@bio-rad.com	Worldwide	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bio-rad.com	Europe	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com
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