

Datasheet: MCA4184Z

Description:	MOUSE ANTI HUMAN TUBULIN BETA 2A CHAIN:Preservative Free
Specificity:	TUBULIN BETA 2A CHAIN
Other names:	TUBB2A
Format:	Preservative Free
Product Type:	Monoclonal Antibody
Clone:	2B2
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: Rat, 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 1-446 of human TUBB2A

External Database**Links****UniProt:**[Q13885](#) [Related reagents](#)**Entrez Gene:**[7280](#) TUBB2A [Related reagents](#)**Synonyms**

TUBB2

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 2A Chain antibody, clone 2B2 recognizes human tubulin beta 2A chain, also known as TUBB2A or Tubulin beta class IIa. Tubulin beta 2A chain is a 445 amino acid ~48 kDa cytoskeletal protein subtype of human β tubulin.

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.

Mutations in the TUBB2A gene can lead to the development of Cortical dysplasia, complex, with other brain malformations 5 ([CDCBM5](#)), a condition characterized by altered neuronal migration and axonal guidance ([Cushion et al. 2014](#)).

Western Blotting

MCA4184Z detects a band of approximately 48 kDa in Jurkat 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](#)

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