

Datasheet: MCA2047F

Description:	MOUSE ANTI TUBULIN BETA 3:FITC
Specificity:	TUBULIN BETA 3
Format:	FITC
Product Type:	Monoclonal Antibody
Clone:	TU-20
Isotype:	IgG1
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
Immunofluorescence	▪			1/10 - 1/50

Where this antibody 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 antibody for use in their own system using appropriate negative/positive controls.

Target Species	Human		
Species Cross Reactivity	Reacts with: Mouse, Baboon, Rat, Hamster, Pig, Bovine N.B. Antibody reactivity and working conditions may vary between species.		
Product Form	Purified IgG conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid		
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	FITC	490	525
Preparation	Purified IgG prepared by DEAE chromatography		
Buffer Solution	Phosphate buffered saline		
Preservative Stabilisers	0.09% Sodium Azide		
Approx. Protein Concentrations	IgG concentration 1.0mg/ml		
Immunogen	Synthetic peptide, ESESQGPK, corresponding to amino acids 441-448 of human class III beta tubulin coupled to Keyhole Limpet Hemocyanin (KLH). This sequence is conserved across all species.		

**External Database
Links**

UniProt:

[Q13509](#) [Related reagents](#)

Entrez Gene:

[10381](#) TUBB3 [Related reagents](#)

Synonyms

TUBB4

Specificity

Mouse anti Tubulin beta 3 antibody, clone TU-20 recognizes class III beta-tubulin which is reported to be restricted to neuronal tissue.

Mouse anti Tubulin beta 3 antibody, clone TU-20 has been used to investigate tumors of neuronal origin including neuroblastoma and ganglioneuroma. Class III beta tubulin has not been detected in tumors of non neuronal origin.

References

1. Dráberová, E. *et al.* (1998) Expression of class III beta-tubulin in normal and neoplastic human tissues. [Histochem Cell Biol. 109 \(3\): 231-9.](#)
2. Hattermann, K. *et al.* (2010) The chemokine receptor CXCR7 is highly expressed in human glioma cells and mediates antiapoptotic effects. [Cancer Res. 70: 3299-308.](#)
3. Rosito, M. *et al.* (2012) CXCL16 Orchestrates Adenosine A3 Receptor and MCP-1/CCL2 Activity to Protect Neurons from Excitotoxic Cell Death in the CNS. [J Neurosci. 32: 3154-63.](#)
4. Nicot, A. and DiCicco-Bloom, E. (2001) Regulation of neuroblast mitosis is determined by PACAP receptor isoform expression. [Proc Natl Acad Sci U S A. 98: 4758-63.](#)
5. Pěkníková, J. *et al.* (2001) Differential subcellular distribution of tubulin epitopes in boar spermatozoa: recognition of class III beta-tubulin epitope in sperm tail. [Biol Reprod. 65: 672-9.](#)
6. Huang, C.L. *et al.* (2010) Expression of ERCC1 and class III β -tubulin is associated with the survival of resected stage III non-small cell lung cancer patients treated with induction chemoradiotherapy using carboplatin-taxane. [Exp Ther Med. 1: 445-51.](#)
7. Yentur, S.P. *et al.* (2014) A decrease of regulatory T cells and altered expression of NK receptors are observed in subacute sclerosing panencephalitis. [Viral Immunol. 27 \(10\): 506-11.](#)

Storage

Store at +4°C or at -20°C if preferred.

This product should be stored undiluted.

Storage in frost free freezers is not recommended. This product is photosensitive and should be protected from light.

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 #10040 available at:
<https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf>

Regulatory

For research purposes only

Related Products

Recommended Negative Controls

MOUSE IgG1 NEGATIVE CONTROL:FITC (MCA928F)

North & South Tel: +1 800 265 7376

America 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

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'M304739:170412'

Printed on 06 Mar 2018

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