

Datasheet: MCA2047

BATCH NUMBER 171006

Description:	MOUSE ANTI TUBULIN BETA 3
Specificity:	TUBULIN BETA 3
Format:	Purified
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
Flow Cytometry			▪	
Immunohistology - Frozen	▪			
Immunohistology - Paraffin (1)	▪			5 - 20 ug/ml
ELISA			▪	
Immunoprecipitation			▪	
Western Blotting (2)	▪			1 - 10 ug/ml
Immunofluorescence	▪			

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.

(1) This product requires antigen retrieval using heat treatment prior to staining of paraffin sections. Sodium citrate buffer pH 6.0 is recommended for this purpose.

(2) TU-20 recognizes tubulin beta 3 under reducing conditions

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. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.

Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared from ascites by DEAE chromatography
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide
Approx. Protein Concentrations	IgG concentration 1.0mg/ml
Immunogen	<p>Synthetic peptide, ESESQGPK, corresponding to amino acids 441-448 of human class III beta tubulin coupled to Keyhole Limpet Hemocyanin (KLH).</p> <p>This sequence is conserved across all species.</p>
External Database Links	<p>UniProt: Q13509 Related reagents</p> <p>Entrez Gene: 10381 TUBB3 Related reagents</p>
Synonyms	TUBB4
RRID	AB_2210682
Specificity	<p>Mouse anti Tubulin beta 3 antibody, clone TU-20 recognizes class III beta-tubulin which is reported to be restricted to neuronal tissue.</p> <p>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.</p>
Histology Positive Control Tissue	Neuronal tissue
References	<ol style="list-style-type: none"> 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. Hattermann, K. <i>et al.</i> (2010) The chemokine receptor CXCR7 is highly expressed in human glioma cells and mediates antiapoptotic effects. Cancer Res. 70: 3299-308. Rosito, M. <i>et al.</i> (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. 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. Pěkníková, J. <i>et al.</i> (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. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Guarantee 18 months from date of despatch.

Health And Safety Information Material Safety Datasheet documentation #10040 available at: <https://www.bio-rad-antibodies.com/SDS/MCA2047>
10040

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

Rabbit Anti Mouse IgG (STAR12...) [RPE](#)
Goat Anti Mouse IgG IgA IgM (STAR87...) [HRP](#)
Goat Anti Mouse IgG (STAR76...) [RPE](#)
Goat Anti Mouse IgG (STAR70...) [FITC](#)
Rabbit Anti Mouse IgG (STAR13...) [HRP](#)
Goat Anti Mouse IgG (Fc) (STAR120...) [FITC](#), [HRP](#)
Rabbit Anti Mouse IgG (STAR9...) [FITC](#)
Goat Anti Mouse IgG (STAR77...) [HRP](#)
Goat Anti Mouse IgG (H/L) (STAR117...) [Alk. Phos.](#), [DyLight@488](#), [DyLight@550](#),
[DyLight@650](#), [DyLight@680](#), [DyLight@800](#),
[FITC](#), [HRP](#)

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