

Datasheet: MCA2047F BATCH NUMBER 159743

Description:	MOUSE ANTI TUBULIN BETA 3:FITC
Specificity:	TUBULIN BETA 3
Format:	FITC
Product Type:	Monoclonal Antibody
Clone:	TU-20
lsotype:	lgG1
Quantity:	0.1 mg

Product Details

Applications	derived from testing w communications from	ithin our laboratorie the originators. Ple al protocol recomm	n the following application es, peer-reviewed publica ase refer to references ir nendations, please visit <u>w</u>	ations or personal ndicated for further
		Yes No	Not Determined	Suggested Dilution
	Immunofluorescence	•		1/10 - 1/50
			for use in a particular teo	•
	•	mmended that the	dures. Suggested workin user titrates the antibody e controls.	•
Target Species	Human			
Species Cross Reactivity	reactivity is derived fro	ty and working cono om testing within ou	er, Pig, Bovine ditions may vary betweer r laboratories, peer-revie ators. Please refer to refe	ewed publications or
Product Form	Purified IgG conjugate	ed to Fluorescein Is	othiocyanate Isomer 1 (F	TTC) - liquid
Max Ex/Em	Fluorophore	Excitation Max (nr	n) Emission Max (nm)	
	FITC	490	525	
Preparation	Purified IgG prepared	by DEAE chromato	ography	
Buffer Solution	Phosphate buffered sa	aline		

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 widely conserved across species.
External Database Links	UniProt: <u>Q13509</u> <u>Related reagents</u> Entrez Gene: <u>10381</u> TUBB3 <u>Related reagents</u>
Synonyms	TUBB4
RRID	AB_2210681
Specificity	 Mouse anti Tubulin beta 3 antibody, clone TU-20 recognizes class III beta-tubulin, restricted to neuronal tissue (Leandro-García 2010; Katsetos 2003). Mouse anti Tubulin beta 3 antibody, clone TU-20 has been used to investigate tumors of neuronal origin (Jirásek 2002) including neuroblastoma (Prasannan 2000) and ganglioneuroma (Dráberová 1998). Class III beta tubulin is highly expressed in tumors of neuronal origin rather than in non-neuronal tumors (Person 2017).
References	 Dráberová, E. <i>et al.</i> (1998) Expression of class III beta-tubulin in normal and neoplastic human tissues. <u>Histochem Cell Biol. 109 (3): 231-9.</u> Hattermann, K. <i>et al.</i> (2010) The chemokine receptor CXCR7 is highly expressed in human glioma cells and mediates antiapoptotic effects. <u>Cancer Res. 70: 3299-308.</u> 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. <u>J</u> <u>Neurosci. 32: 3154-63.</u> Nicot, A. and DiCicco-Bloom, E. (2001) Regulation of neuroblast mitosis is determined by PACAP receptor isoform expression. <u>Proc Natl Acad Sci U S A. 98: 4758-63.</u> Pěknicová, 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. <u>Biol Reprod. 65: 672-9.</u> Huang, C.L. <i>et al.</i> (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. <u>Exp Ther Med. 1: 445-51.</u> Yentur, S.P. <i>et al.</i> (2014) A decrease of regulatory T cells and altered expression of NK receptors are observed in subacute sclerosing panencephalitis. <u>Viral Immunol. 27 (10): 506-11.</u> Alexiou, G.A. <i>et al.</i> (2013) Supratentorial ependymomas in children: Analysis of nine

Guarante	e	frost-free freezers is n protected from light. 12 months from date of		is photosensitive and should be		
		•	ng and thawing as this may de	nature the antibody. Storage in		
Storage		This product is shipped at ambient temperature. It is recommended to aliquot and store -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C fe short term use (up to 4 weeks) and store the remaining aliquots at -20°C.				
		14. Vedin, V. <i>et al.</i> (20	10) Organization of the chemo	sensory neuroepithelium of the s alces <u>Brain Res. 1306: 53-61.</u>		
	 CDK2 activity. <u>J Neurosci. 22 (5): 1583-91.</u> 12. Zhu, G. <i>et al.</i> (2012) Effects of neurotrophin-3 on the differentiation of neural stem cells into neurons and oligodendrocytes. <u>Neural Regen Res. 7 (19): 1483-7.</u> 13. Tarasovetc, E.V. <i>et al.</i> (2021) Permitted and restricted steps of human kinetochore assembly in mitotic cell extracts. <u>Mol Biol Cell. : mbcE20070461.</u> 					
		11. Carey, R.G. <i>et al.</i> anti-mitogenic signalir	• • •	ase activating polypeptide rs is regulated by p57Kip2-depende		
			· · · ·	expression in the white matter spina contusion injuries in adult rats. <u>Glia.</u>		
		shortening microtubul	2013) Long tethers provide hig es. <u>Proc Natl Acad Sci U S A.</u>	110 (19): 7708-13.		

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