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Datasheet for ABIN532785

## anti-TUBB3 antibody (AA 441-448)

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### Overview

Quantity:	100 µg
Target:	TUBB3
Binding Specificity:	AA 441-448
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This TUBB3 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunocytochemistry (ICC)

### Product Details

Purpose:	Mouse monoclonal antibody raised against synthetic peptide of TUBB3.
Immunogen:	A synthetic peptide (conjugated with KLH) corresponding to amino acids 441-448 of human TUBB3.
Sequence:	ESESQGPK
Clone:	TU-20
Isotype:	IgG1
Specificity:	This antibody recognizes neuron-specific human betaIII-tubulin.
Cross-Reactivity:	Human

## Target Details

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Target:	TUBB3
Alternative Name:	TUBB3 / TUBB4 ( <a href="#">TUBB3 Products</a> )
Gene ID:	10381
Pathways:	<a href="#">Microtubule Dynamics, M Phase</a>

## Application Details

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Application Notes:	The optimal working dilution should be determined by the end user.
Restrictions:	For Research Use only

## Handling

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Format:	Liquid
Buffer:	In PBS, pH 7.4 (0.09 % sodium azide)
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C
Storage Comment:	Store at 4°C. Do not freeze. Aliquot to avoid repeated freezing and thawing.

## Publications

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Product cited in: Katsetos, Draber, Kavallaris: "Targeting  $\beta$ III-tubulin in glioblastoma multiforme: from cell biology and histopathology to cancer therapeutics." in: **Anti-cancer agents in medicinal chemistry**, Vol. 11, Issue 8, pp. 719-28, (2012) ([PubMed](#)).

Dráberová, Del Valle, Gordon, Marková, Smejkalová, Bertrand, de Chadarévian, Agamanolis, Legido, Khalili, Dráber, Katsetos: "Class III beta-tubulin is constitutively coexpressed with glial fibrillary acidic protein and nestin in midgestational human fetal astrocytes: implications for phenotypic identity." in: **Journal of neuropathology and experimental neurology**, Vol. 67, Issue 4, pp. 341-54, (2008) ([PubMed](#)).

Katsetos, Dráberová, Smejkalová, Reddy, Bertrand, de Chadarévian, Legido, Nissanov, Baas,

Dráber: "Class III beta-tubulin and gamma-tubulin are co-expressed and form complexes in human glioblastoma cells." in: **Neurochemical research**, Vol. 32, Issue 8, pp. 1387-98, (2007) ([PubMed](#)).

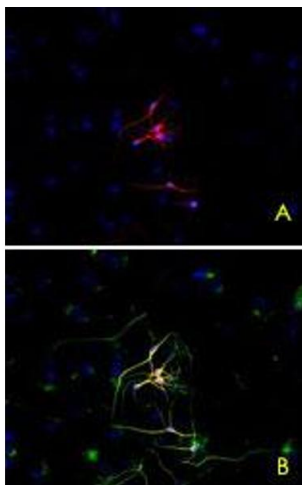
Kukharskyy, Sulimenko, Mac?rek, Sulimenko, Dráberová, Dráber: "Complexes of gamma-tubulin with nonreceptor protein tyrosine kinases Src and Fyn in differentiating P19 embryonal carcinoma cells." in: **Experimental cell research**, Vol. 298, Issue 1, pp. 218-28, (2004) ([PubMed](#)).

Zíková, Sulimenko, Dráber, Dráberová: "Accumulation of 210 kDa microtubule-interacting protein in differentiating P19 embryonal carcinoma cells." in: **FEBS letters**, Vol. 473, Issue 1, pp. 19-23, (2000) ([PubMed](#)).

There are more publications referencing this product on: [Product page](#)

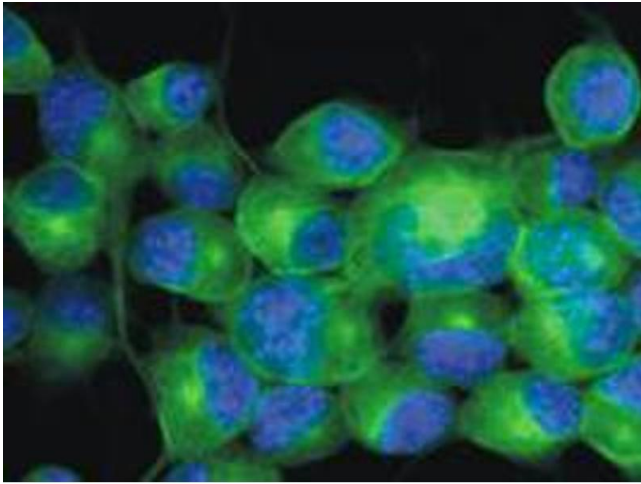
## Images

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### Immunofluorescence

**Image 1.** Immunofluorescence staining of P-19 mouse embryonal carcinoma cell line stimulated to neuronal differentiation by retinoic acid. A : Microtubules decorated with TUBB3 monoclonal antibody, clone TU - 20 (red). B : Merged image of co - staining with TUBB3 monoclonal antibody (TU - 06 ; green). Superposition of red and green colours provided yellow staining. Nuclei were stained with DNA - binding dye (blue).



### Immunofluorescence

**Image 2.** Immunofluorescence staining of Neuro 2a mouse neuroblastoma cell line using TUBB3 monoclonal antibody, clone TU - 20 (Cat # MAB0907 ; green) , 3 ug / ml. Nuclei were stained with DAPI (blue) .