

DESCRIPTION

Species Reactivity	Human/Mouse/Rat
Specificity	Detects human α Tubulin in direct ELISAs and Western blots.
Source	Monoclonal Mouse IgG _{2A} Clone # 961216
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Human TUBA1A synthetic peptide Accession # Q71U36
Conjugate	Alexa Fluor 700 Excitation Wavelength: 675-700 nm Emission Wavelength: 723 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide
*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.	

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

Western Blot	Optimal dilution of this antibody should be experimentally determined.
Immunocytochemistry	Optimal dilution of this antibody should be experimentally determined.
Immunohistochemistry	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

Tubulin alpha-1A chain (TUBA1A), also known as Alpha-tubulin 3, is the principal alpha tubulin in morphologically differentiated neurons. Alpha tubulin dimerizes with beta Tubulin to form microtubules. Microtubules mediate transport of proteins and endosomes within cells, and TUBA1A has been shown to interact with metabotropic glutamate receptor 7 (receptor trafficking), synuclein alpha (synaptic plasticity), and N-syndecan (neurite outgrowth). This gene is mutated in malformations of cortical development, including Lissencephaly resulting in microcephaly, developmental delay and early-onset epileptic seizures.

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