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Alpha-tubulin Antibody

Catalog # ASC10875

Product Information

Application	WB, E
Primary Accession	Q13748
Other Accession	NP_005992, 17921993
Reactivity	Human, Mouse, Rat
Host	Chicken
Clonality	Polyclonal
Isotype	IgY
Concentration (mg/ml)	1 mg/mL
Conjugate	Unconjugated
Application Notes	Tubulin antibody can be used for detection of Tubulin by Western blot at 0.5 - 1 □g/mL.

Additional Information

Gene ID	7278
Other Names	Tubulin alpha-3C/D chain, Alpha-tubulin 2, Alpha-tubulin 3C/D, Tubulin alpha-2 chain, TUBA3C, TUBA2
Target/Specificity	TUBA3C;
Reconstitution & Storage	Alpha-tubulin antibody can be stored at 4℃ for three months and -20℃, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
Precautions	Alpha-tubulin Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

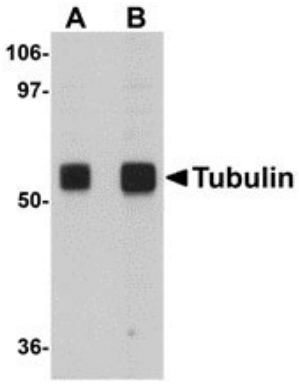
Background

Alpha-tubulin Antibody: Alpha-tubulin belongs to the tubulin superfamily, which is composed of six distinct families. Along with beta-tubulins, alpha-tubulins are the major components of microtubules. These microtubules are involved in a wide variety of cellular activities ranging from mitosis and transport events to cell movement and the maintenance of cell shape. Alpha- and beta-tubulin dimers are assembled to 13 protofilaments that form a microtubule of 22-nm diameter. Tyrosine ligase adds a C-terminal tyrosine to monomeric alpha-tubulin. Assembled microtubules can again be detyrosinated by a cytoskeleton-associated carboxypeptidase. Another post-translational modification of detyrosinated alpha-tubulin is C-terminal polyglutamylation, which is characteristic of microtubules in neuronal cells and the mitotic spindle. Like GAPDH and beta-Actin, this antibody makes an excellent loading control in immunoblots.

References

McKean PG, Vaughan S, and Gull K. The extended tubulin family. J. Cell Sci.2001; 114:2723-33.
Barra HA, Arce CA, and Argarana CE. Posttranslational tyrosination/detyrosination of tubulin. Mol. Neurobiol.1988; 2:133-53.
Fukshima N, Furuta D, Hidaka Y, et al. Post-translational modifcations of tubulin in the nervous system. J. Neurochem.2009; 109:683-693.

Images



Western blot analysis of Tubulin in rat brain tissue lysate with Tubulin antibody at (A) 0.5 and (B) 1 µg/mL.