

alpha-Tubulin Antibody [2B11]
Catalog # ASC12043**Specification**

alpha-Tubulin Antibody [2B11] - Product Information

Application	WB
Other Accession	37492 , CAA25855 , 7846
Reactivity	Human, Mouse, Rat, Rabbit, Zebrafish
Host	Mouse
Clonality	Monoclonal
Isotype	IgG
Application Notes	alpha-Tubulin antibody can be used for detection of alpha-Tubulin by Western blot at 1 - 2 µg/ml.

alpha-Tubulin Antibody [2B11] - Additional Information**Other Names**

Tubulin alpha-1A, TUBA1A, TUBA3, LIS3

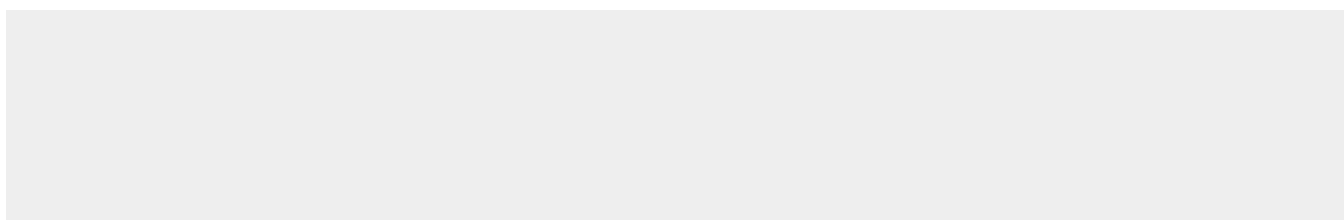
Precautions

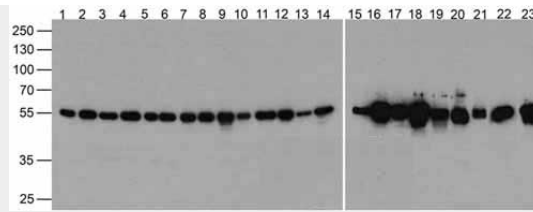
alpha-Tubulin Antibody [2B11] is for research use only and not for use in diagnostic or therapeutic procedures.

alpha-Tubulin Antibody [2B11] - Protein Information**alpha-Tubulin Antibody [2B11] - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

alpha-Tubulin Antibody [2B11] - Images



Western blot of alpha-Tubulin in 293, A431, A549, Daudi, HeLa, HepG2, Jurkat, K562, MOLT4, 3T3, Raji, Ramos, THP-1, U937, human brain, mouse brain, rat brain, rabbit brain, mouse lung, rat lung, mouse liver, rabbit spleen and zebrafish lysate at 1 µg/mL.

alpha-Tubulin Antibody [2B11] - Background

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 (reviewed in 1). Tyrosine ligase adds a C-terminal tyrosine to monomeric alpha-Tubulin. Assembled microtubules can again be detyrosinated by a cytoskeleton-associated carboxypeptidase (2). Another post-translational modification of detyrosinated alpha-Tubulin is C-terminal polyglutamylation, which is characteristic of microtubules in neuronal cells and the mitotic spindle (3). Like GAPDH and β -Actin, this antibody makes an excellent loading control in immunoblots.

alpha-Tubulin Antibody [2B11] - 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.; Fukushima N, Furuta D, Hidaka Y, et al. Post-translational modifications of tubulin in the nervous system. *J. Neurochem.* 2009; 109:683-693.;