10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Alpha-tubulin Antibody
Catalog # ASC11595

Specification

Alpha-tubulin Antibody - Product Information

Application	**WB, E**
Primary Accession	Q13748
Other Accession	NP_005992, 17921993
Reactivity	**Human, Mouse, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**IgG**
Calculated MW	**Predicted: 50 kDa KDa**
Application Notes	**Tubulin antibody can be used for detection of Tubulin by Western blot at 0.5 and 1 µg/mL.**

Alpha-tubulin Antibody - Additional Information

Gene ID	**7278**

Target/Specificity
TUBA3C;

Reconstitution & Storage
Alpha-tubulin antibody can be stored at 4℃ for three months and -20℃, stable for up to one year.

Precautions
Alpha-tubulin Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Alpha-tubulin Antibody - Protein Information

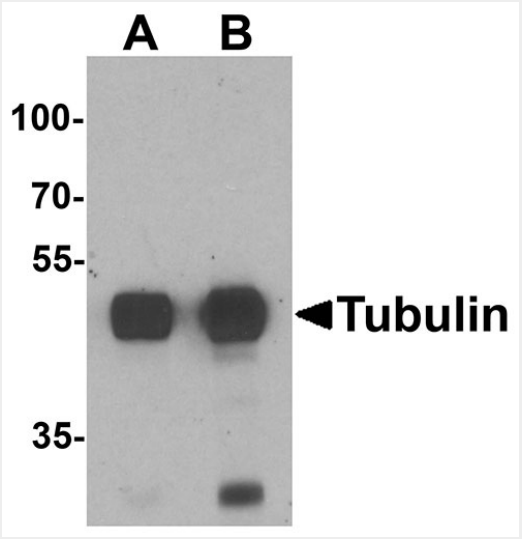
Alpha-tubulin Antibody - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Alpha-tubulin Antibody - Images

10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999



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

Alpha-tubulin Antibody - 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.

Alpha-tubulin Antibody - 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.