

Rabbit alpha-Tubulin Polyclonal Antibody | anti-TUBA1A antibody

alpha-Tubulin Antibody

CATALOG # AAA40856	HOST Rabbit	REACTIVITY Human, Mouse, Rat	APPLICATIONS Immunofluorescence, Immunohistochemistry, Western Blot, ELISA
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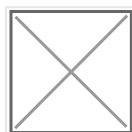
PRODUCT SYNONYMS

alpha-Tubulin; Polyclonal Antibody; alpha-Tubulin Antibody; Tubulin alpha-1A; TUBA1A; TUBA3; LIS3; tubulin; alpha 1a; anti-TUBA1A antibody

PRODUCT SPECIFICATIONS

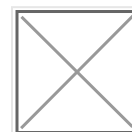
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	alpha-Tubulin antibody is human, mouse and rat reactive.
Purity/Purification	Affinity chromatography purified via peptide column.
Form/Format	Liquid
Concentration	1 mg/mL (varies by lot)
Sequence Length	451
Applicable Applications for anti-TUBA1A antibody	IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot), ELISA
Conjugate	Unconjugated
Immunogen	alpha-Tubulin antibody was raised against an 18 amino acid peptide near the carboxy terminus of human alpha-Tubulin
Buffer	alpha-Tubulin antibody is supplied in PBS containing 0.02% sodium azide.
Species	Human
Preparation and Storage	Store at 4 degree C for three months and -20 degree C, stable for up to one year.

IMAGES



IHC (Immunohistochemistry)

Immunohistochemistry of alpha-Tubulin in human brain tissue with alpha-Tubulin antibody at 5 &#956;g/mL.

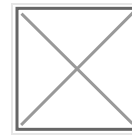


IF (Immunofluorescence)

Immunofluorescence of alpha-Tubulin in human brain tissue with alpha-Tubulin antibody at 20 &#956;g/mL.

**IHC (Immunohistochemistry)**

Immunohistochemistry of alpha-Tubulin in human brain tissue with alpha-Tubulin antibody at 2.5 μg/ml.

**WB (Western Blot)**

Western blot analysis of alpha-Tubulin in 293, Daudi, HeLa, HepG2, Jurkat, K562, NH3T3, Raji, Ramos, U937, Human brain, Mouse brain, Rat Brain, Rabbit Brain, Rabbit Spleen, Zebrafish, Mouse Liver and Chicken liver lysate at 1 μg/mL.

ADDITIONAL INFORMATION

Related Product Information for anti-TUBA1A 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 (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 ?-Actin, this antibody makes an excellent loading control in immunoblots.
Product Categories/Family for anti-TUBA1A antibody	Homeostasis
References	1. McKean PG, Vaughan S, and Gull K. The extended tubulin family. J. Cell Sci. 2001; 114:2723-33. 2. Barra HA, Arce CA, and Argarana CE. Posttranslational tyrosination/detyrosination of tubulin. Mol. Neurobiol. 1988; 2:133-53. 3. Fukshima N, Furuta D, Hidaka Y, et al. Post-translational modifications of tubulin in the nervous system. J. Neurochem. 2009; 109:683-693.

NCBI AND UNIPROT INFORMATION

NCBI GI #	37492
NCBI GeneID	7846
UniProt Accession #	Q71U36 ; P04687 ; P05209 ; A8K0B8 ; G3V1U9
Molecular Weight	Predicted: 50 kDa Observed: 54 kDa
NCBI Official Full Name	alpha-tubulin
NCBI Official Synonym Full Names	tubulin alpha 1a
NCBI Official Symbol	TUBA1A
NCBI Official Synonym Symbols	LIS3; TUBA3; B-ALPHA-1
NCBI Protein Information	tubulin alpha-1A chain
UniProt Protein Name	Tubulin alpha-1A chain
UniProt Gene Name	TUBA1A
UniProt Synonym Gene Names	TUBA3

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/alpha-tubulin-antibody-immunofluorescence-immunohistochemistry-western-blot-elisa/40856>