

**Product Name: Tubulin  $\alpha$ 1/3/4 (phospho Tyr272) Rabbit Polyclonal Antibody**  
**Catalog #: APRab05600**

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## Summary

<b>Production Name</b>	Tubulin $\alpha$ 1/3/4 (phospho Tyr272) Rabbit Polyclonal Antibody
<b>Description</b>	Rabbit Polyclonal Antibody
<b>Host</b>	Rabbit
<b>Application</b>	WB
<b>Reactivity</b>	Human,Mouse,Rat

## Performance

<b>Conjugation</b>	Unconjugated
<b>Modification</b>	Phospho Antibody
<b>Isotype</b>	IgG
<b>Clonality</b>	Polyclonal
<b>Form</b>	Liquid
<b>Storage</b>	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
<b>Buffer</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.
<b>Purification</b>	Affinity purification

## Immunogen

<b>Gene Name</b>	TUBA1A TUBA1A; TUBA3; Tubulin alpha-1A chain; Alpha-tubulin 3; Tubulin B-alpha-1; Tubulin
<b>Alternative Names</b>	alpha-3 chain; TUBA1B; Tubulin alpha-1B chain; Alpha-tubulin ubiquitous; Tubulin K-alpha-1; Tubulin alpha-ubiquitous chain; TUBA1C; TUBA6; Tubulin alpha-1C c
<b>Gene ID</b>	7846/10376/84790/113457/7278/112714/7277 Q71U36/P68363/Q9BQE3/Q13748/Q6PEY2/P68366.The antiserum was produced
<b>SwissProt ID</b>	against synthesized peptide derived from human TUBA1/3/4 around the phosphorylation site of Tyr272. AA range:238-287

## Application

<b>Dilution Ratio</b>	WB 1:500-1:2000. ELISA: 1:40000.
<b>Molecular Weight</b>	50-55kD

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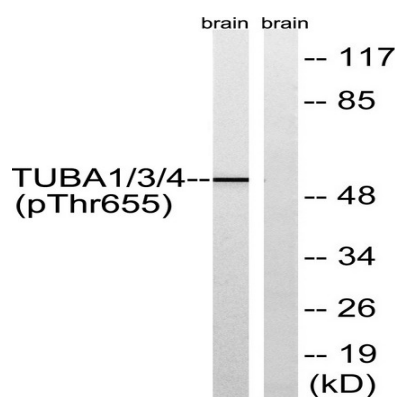
## Background

Microtubules of the eukaryotic cytoskeleton perform essential and diverse functions and are composed of a heterodimer of alpha and beta tubulins. The genes encoding these microtubule constituents belong to the tubulin superfamily, which is composed of six distinct families. Genes from the alpha, beta and gamma tubulin families are found in all eukaryotes. The alpha and beta tubulins represent the major components of microtubules, while gamma tubulin plays a critical role in the nucleation of microtubule assembly. There are multiple alpha and beta tubulin genes, which are highly conserved among species. This gene encodes alpha tubulin and is highly similar to the mouse and rat Tuba1 genes. Northern blotting studies have shown that the gene expression is predominantly found in morphologically differentiated neurologic cells. This gene is one of three alpha-tubulin genes in a cluster on chromosome 12q. disease: Defects in TUBA1A are the cause of lissencephaly type 3 (LIS3) [MIM:611603]. LIS is characterized by a smooth brain surface due to the absence (agyria) or reduction (pachygyria) of surface convolutions. It is often associated with psychomotor retardation and seizures. LIS3 features include agyria or pachygyria or laminar heterotopia, severe mental retardation, motor delay, variable presence of seizures, and abnormalities of corpus callosum, hippocampus, cerebellar vermis and brainstem. function: Tubulin is the major constituent of microtubules. It binds two moles of GTP, one at an exchangeable site on the beta chain and one at a non-exchangeable site on the alpha-chain. PTM: Undergoes a tyrosination/detyrosination cycle, the cyclic removal and re-addition of a C-terminal tyrosine residue by the enzymes tubulin tyrosine carboxypeptidase (TTCP) and tubulin tyrosine ligase (TTL), respectively. similarity: Belongs to the tubulin family. subunit: Dimer of alpha and beta chains. tissue specificity: Expressed at a high level in fetal brain.

## Research Area

Gap junction; Pathogenic Escherichia coli infection;

## Image Data



Western blot analysis of lysates from Rat brain, using TUBA1/3/4 (Phospho-Tyr272) Antibody. The lane on the right is

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blocked with the phospho peptide.

**Note**

For research use only.