



# Tubulin $\alpha$ 1/3/4 rabbit pAb

Cat No.:ES7558

For research use only

## Overview

<b>Product Name</b>	Tubulin $\alpha$ 1/3/4 rabbit pAb
<b>Host species</b>	Rabbit
<b>Applications</b>	WB;ELISA
<b>Species Cross-Reactivity</b>	Human;Mouse;Rat
<b>Recommended dilutions</b>	Western Blot: 1/500 - 1/2000. ELISA: 1/10000. Not yet tested in other applications.
<b>Immunogen</b>	The antiserum was produced against synthesized peptide derived from human TUBA1/3/4. AA range:238-287
<b>Specificity</b>	Tubulin $\alpha$ 1/3/4 Polyclonal Antibody detects endogenous levels of Tubulin $\alpha$ 1/3/4 protein.
<b>Formulation</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Storage</b>	Store at $-20^{\circ}\text{C}$ . Avoid repeated freeze-thaw cycles.
<b>Protein Name</b>	Tubulin alpha-1A chain
<b>Gene Name</b>	TUBA1A
<b>Cellular localization</b>	Cytoplasm, cytoskeleton.
<b>Purification</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Clonality</b>	Polyclonal
<b>Concentration</b>	1 mg/ml
<b>Observed band</b>	50-56kD
<b>Human Gene ID</b>	7846/10376/84790/113457/7278/112714/7277
<b>Human Swiss-Prot Number</b>	Q71U36/P68363/Q9BQE3/Q13748/Q6PEY2/P68366
<b>Alternative Names</b>	TUBA1A; TUBA3; Tubulin alpha-1A chain; Alpha-tubulin 3; Tubulin B-alpha-1; Tubulin 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>Background</b>	Microtubules of the eukaryotic cytoskeleton perform essential and diverse functions and are





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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.



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