

Tubulin  $\alpha$ 1/3/4 (phospho Tyr272) Polyclonal Antibody

Catalog No: #13458



Package Size: #13458-1 50ul #13458-2 100ul

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## Description

|                       |  |
|-----------------------|--|
| Product Name          | Tubulin $\alpha$ 1/3/4 (phospho Tyr272) Polyclonal Antibody  |
| Host Species          | Rabbit   |
| Purification          | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.  |
| Applications          | WB,ELISA   |
| Species Reactivity    | Human,Mouse,Rat  |
| Specificity           | Phospho-Tubulin $\alpha$ 1/3/4 (Y272) Polyclonal Antibody detects endogenous levels of Tubulin $\alpha$ 1/3/4 protein only when phosphorylated at Y272.  |
| Immunogen Description | The antiserum was produced against synthesized peptide derived from human TUBA1/3/4 around the phosphorylation site of Tyr272. AA range:238-287  |
| Other Names           | 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 |
| Accession No.         | Swiss<br>Prot:Q71U36/P68363/Q9BQE3/Q13748/Q6PEY2/P68366GeneID:7846/10376/84790/113457/7278/112714/7277   |
| Uniprot               | Q71U36/P68363/Q9BQE3/Q13748/Q6PEY2/P68366  |
| GeneID                | 7846/10376/84790/113457/7278/112714/7277   |
| SDS-PAGE MW           | 50-55  |
| Concentration         | 1 mg/ml  |
| Formulation           | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.  |
| Storage               | -20°C/1  |

## Application Details

Western Blot: 1/500 - 1/2000. ELISA: 1/40000. Not yet tested in other applications.

## Background

tubulin alpha 1a(TUBA1A) Homo sapiens 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.

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Note: This product is for in vitro research use only