



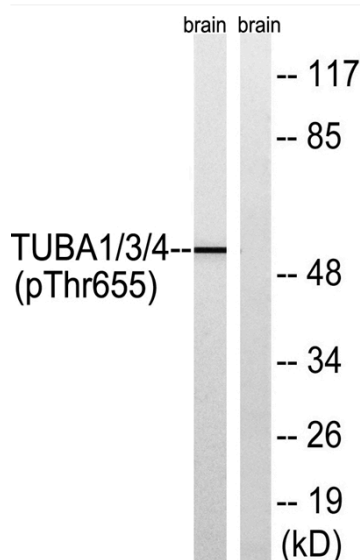
Tubulin α 1/3/4 (phospho Tyr272) Polyclonal Antibody

Catalog No	YP-Ab-03036
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB;ELISA
Gene Name	TUBA1A
Immunogen	The antiserum was produced against synthesized peptide derived from human TUBA1/3/4 around the phosphorylation site of Tyr272. AA range:238-287
Specificity	Phospho-Tubulin α 1/3/4 (Y272) Polyclonal Antibody detects endogenous levels of Tubulin α 1/3/4 protein only when phosphorylated at Y272.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	Western Blot: 1/500 - 1/2000. ELISA: 1/40000. Not yet tested in other applications.
Concentration	1 mg/ml
Purity	$\geq 90\%$
Storage Stability	-20°C/1 year
Synonyms	Alpha tubulin ubiquitous;Alpha-tubulin ubiquitous;K alpha 1;TBA1B_HUMAN;TUBA1B;Tubulin alpha 1B;Tubulin alpha 1B chain;Tubulin alpha ubiquitous;Tubulin alpha ubiquitous chain;Tubulin alpha-1B chain;Tubulin alpha-ubiquitous chain;Tubulin K alpha 1;Tubulin K-alpha-1;Alpha-tubulin 1;ALS22;B ALPHA 1;bA48E5.3;H2 ALPHA;Hum a tub1;Hum a tub2;LIS3;MGC17147;MGC55332;TBA4A_HUMAN;Testis-specific alpha-tubulin;TUBA1;TUBA1A;tuba1l;Tuba4a;Tubulin alpha 1 chain;Tubulin alpha;Tubulin alpha-1 chain;Tubulin alpha-4A chain;Tubulin H2-alpha;Tubulin;alpha 1 (testis specific);alpha 1;like;alpha 4a;alpha;testis-specific;alpha-1;Alpha-tubulin 2;Alpha-tubulin 3C/D;alpha-tubulin isotype H2-alpha;H2-ALPHA;TBA3C_HUMAN;TUBA2;TUBA3C;TUBA3D;Tubulin alpha 2;Tubulin alpha 2 chain;Tubulin alpha 3c;Tubulin alpha-2 chain;Tubulin alpha-3C/D chain;Alpha tubulin 3;Alpha-tubulin 3;FLJ25113;TBA1A_HUMAN;TUB;Tubulin α ;Tubulin alpha-1A chain;TUBA3;Tubulin B-alpha-1;Tubulin alpha-3 chain;TUBA1C;TUBA6;Tubulin alpha-1C c
Observed Band	50-55kD
Calculated Molecular Weight	50-55kD
Cell Pathway	Cytoplasm, cytoskeleton.



Tissue Specificity	Expressed at a high level in fetal brain.
Function	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), resp
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.
matters needing attention	Avoid repeated freezing and thawing!
Usage suggestions	This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images



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