

α Tubulin Rabbit pAb-Loading Control

CatalogNo: YT5431

| Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse, Rat

Applications

- WB, IHC, IF, ELISA

MW

- 50kD (Observed)

Isotype

- IgG

| Recommended Dilution Ratios

WB 1:500-1:2000

IHC: 1:100-1:300

ELISA 1:20000

IF 1:50-200

| Storage

Storage*

-15°C to -25°C/1 year (Do not lower than -25°C)

Formulation

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

| Basic Information

Clonality

Polyclonal

| Immunogen Information

Immunogen

Synthesized peptide derived from human Tubulin α around the non-acetylation site of K112.

Specificity

Tubulin α Polyclonal Antibody detects endogenous levels of Tubulin α protein only when acetylation at K112.

| Target Information

Gene name	TUBA1A/TUBA1B/TUBA1C		
Protein Name	Tubulin alpha-1A chain/Tubulin alpha-1B chain/Tubulin alpha-1C chain		
	Organism	Gene ID	UniProt ID
	Human	7846 ; 10376 ; 84790 ;	Q71U36 ; P68363 ; Q9BQE3 ;
	Mouse	22142 ; 22143 ; 22146 ;	
	Rat	64158 ; 500929 ; 100909441 ;	P68370 ; Q6P9V9 ; Q6AYZ1 ;
Cellular Localization	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), respectively.,similarity:Belongs to the tubulin family.,subunit:Dimer of alpha and beta chains.,tissue specificity:Expressed at a high level in fetal brain.,		

| Validation Data

| Contact information

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