

## **α Tubulin (Acetyl Lys40) Rabbit pAb**

CatalogNo: YK0039

### **| Key Features**

#### Host Species

- Rabbit

#### Reactivity

- Human, Mouse, Rat

#### Applications

- WB, IHC, IF, ELISA

#### MW

- 50kD (Observed)

#### Isotype

- IgG

### **| 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.

### **| Recommended Dilution Ratios**

**WB 1:500-1:2000**

**IHC: 1:100-300**

**ELISA 1:20000**

**IF 1:50-200**

### **| Basic Information**

**Clonality** Polyclonal

### **| Immunogen Information**

**Immunogen** The antiserum was produced against synthesized Acetyl-peptide derived from human TUBA1A around the Acetylation site of Lys40. AA range:1-50

## Specificity

Acetyl-Tubulin  $\alpha$  (K40) Polyclonal Antibody detects endogenous levels of Tubulin  $\alpha$  protein only when acetylated at K40. The name of modified sites may be influenced by many factors, such as species (the modified site was not originally found in human samples) and the change of protein sequence (the previous protein sequence is incomplete, and the protein sequence may be prolonged with the development of protein sequencing technology). When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports. The antibody binds to the following modification sequence (lowercase letters are modification sites):SDkTI

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## Target Information

**Gene name** TUBA1A/TUBA1B/TUBA1C/TUBA3C/TUBA4A

**Protein Name** Tubulin alpha-1A chain/Tubulin alpha-1B chain/Tubulin alpha-1C chain/Tubulin alpha-3C/D chain/Tubulin alpha-4A chain

Organism	Gene ID	UniProt ID
Human	<a href="#">7846</a> ;	<a href="#">Q71U36</a> ;
Mouse	<a href="#">22142</a> ;	<a href="#">P68369</a> ;
Rat	<a href="#">64158</a> ;	<a href="#">P68370</a> ;

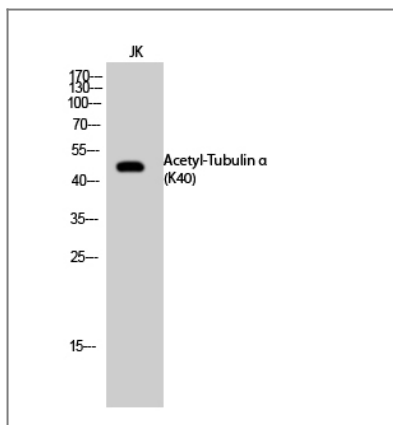
**Cellular Localization** Cytoplasm , cytoskeleton.

**Tissue specificity** Expressed at a high level in fetal brain.

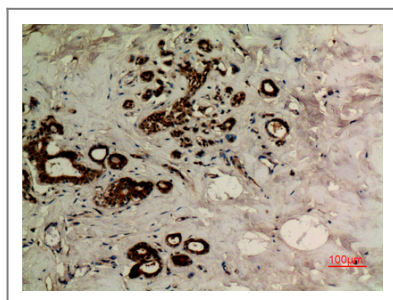
**Function** Disease:Defects in TUBA1A are the cause of lissencephaly type 3 (LIS3) [MIM:611603]. LIS is characterized by a smooth brain surface due to the absence (agyria) or reduction (pachygyria) of surface convolutions. It is often associated with psychomotor retardation and seizures. LIS3 features 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. ,

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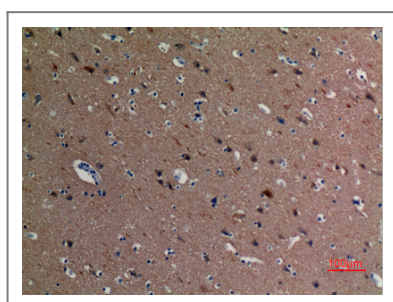
## Validation Data



Western Blot analysis of JK cells using Acetyl-Tubulin  $\alpha$  (K40) Polyclonal Antibody. Secondary antibody (catalog#:RS0002) was diluted at 1:20000



Immunohistochemical analysis of paraffin-embedded human-breast, antibody was diluted at 1:100



Immunohistochemical analysis of paraffin-embedded human-brain, antibody was diluted at 1:100

## Contact information

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Please scan the QR code to access additional product information:  
 **$\alpha$  Tubulin (Acetyl Lys40) Rabbit pAb**

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