

Acetyl-alpha Tubulin -K40 Rabbit mAb

Catalog No.: A24738 **Recombinant** **2 Publications**

Basic Information

Observed MW

55 kDa

Calculated MW

50 kDa

Category

Primary antibody

Applications

WB,IHC-P,IF/ICC,ELISA

Cross-Reactivity

Human, Mouse, Rat

CloneNo number

ARC64227

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 blot 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. Mutations in this gene cause lissencephaly type 3 (LIS3) - a neurological condition characterized by microcephaly, intellectual disability, and early-onset epilepsy caused by defective neuronal migration. Alternative splicing results in multiple transcript variants encoding distinct isoforms.

Recommended Dilutions

WB 1:9000 - 1:40000**IHC-P** 1:10000 - 1:40000**IF/ICC** 1:50 - 1:200**ELISA** Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements.

Immunogen Information

Gene ID

7846

Swiss Prot

Q71U36

Immunogen

Synthetic peptide. This information is considered to be commercially sensitive.

Synonyms

LIS3; TUBA3; B-ALPHA-1; Acetyl-alpha Tubulin -K40

Contact

 | 400-999-6126 | cn.market@abclonal.com.cn | www.abclonal.com.cn

Product Information

Source

Rabbit

Isotype

IgG

Purification

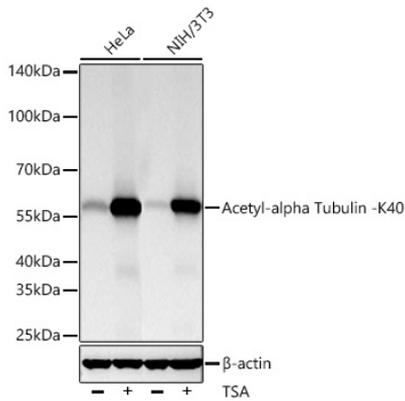
Affinity purification

Storage

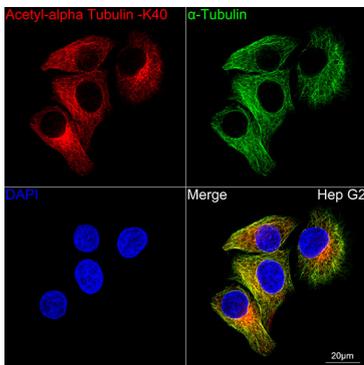
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.09% Sodium azide,0.05% BSA,50% glycerol,pH7.3.

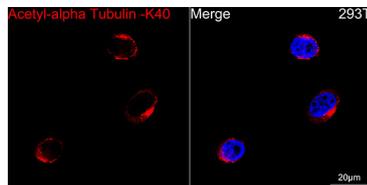
Validation Data



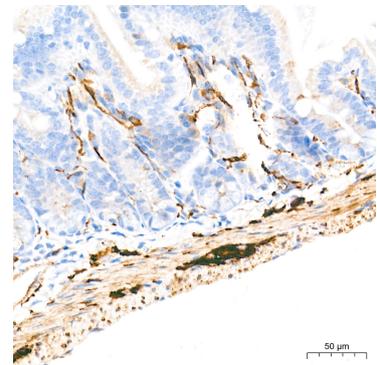
Western blot analysis of lysates from cells using Acetyl-alpha Tubulin -K40 Rabbit mAb (A24738) at 1:10000 dilution incubated overnight at 4°C. HeLa cells and NIH/3T3 cells were treated with TSA (1 μ M) at 37°C for 18 hours.
 Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
 Lysates/proteins: 30 μ g per lane.
 Blocking buffer: 3% nonfat dry milk in TBST.
 Detection: ECL Basic Kit (RM00020).
 Exposure time: 10 s.



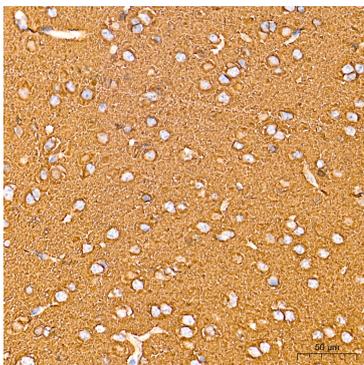
Confocal imaging of Hep G2 cells using Acetyl-alpha Tubulin -K40 Rabbit mAb (A24738, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). The cells were counterstained with α -Tubulin mAb (AC012, dilution 1:400) followed by incubation with ABflo® 488-conjugated Goat Anti-Mouse IgG (H+L) Ab (AS076, dilution 1:500) (Green). DAPI was used for nuclear staining (blue). Objective: 100x.



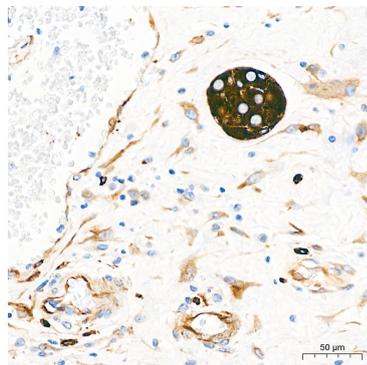
Confocal imaging of 293T cells using Acetyl-alpha Tubulin -K40 Rabbit mAb (A24738, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (blue). Objective: 100x.



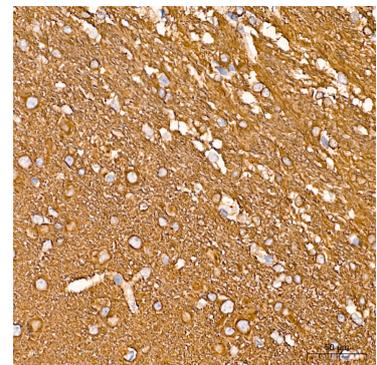
Immunohistochemistry analysis of paraffin-embedded Mouse intestine tissue using Acetyl-alpha Tubulin -K40 Rabbit mAb (A24738) at a dilution of 1:10000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Rat brain tissue using Acetyl-alpha Tubulin -K40 Rabbit mAb (A24738) at a dilution of 1:10000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Human colon tissue using Acetyl-alpha Tubulin -K40 Rabbit mAb (A24738) at a dilution of 1:10000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Mouse brain tissue using Acetyl-alpha Tubulin -K40 Rabbit mAb (A24738) at a dilution of 1:10000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.