

Datasheet for ABIN7212618
anti-alpha Tubulin antibody (acLys40)



[Go to Product page](#)

6 Images

Overview

| | |
|----------------------|---|
| Quantity: | 100 µL |
| Target: | alpha Tubulin (TUBA1) |
| Binding Specificity: | acLys40 |
| Reactivity: | Human, Mouse, Rat |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Conjugate: | This alpha Tubulin antibody is un-conjugated |
| Application: | Western Blotting (WB), ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)) |

Product Details

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|---------------|--|
| Purpose: | Tubulin α (Acetyl Lys40) Polyclonal Antibody |
| Immunogen: | Synthesized peptide derived from the human Tubulin alpha around the acetylation site of K40 |
| Isotype: | IgG |
| Specificity: | Acetyl-Tubulin α (K40) Polyclonal Antibody detects endogenous levels of Tubulin α protein only when acetylated at K40. |
| Purification: | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen |

Target Details

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|---------|-----------------------|
| Target: | alpha Tubulin (TUBA1) |
|---------|-----------------------|

Target Details

Alternative Name: Tubulin alpha ([TUBA1 Products](#))

Background: Rabbit Anti-Tubulin α (Acetyl Lys40) Polyclonal Antibody, 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-6 chain, TUBA3C, TUBA2, TUBA3D, Tubulin alpha-3C/D chain, Alpha-tubulin 2, Alpha-tubulin 3C/D, Tubulin alpha-2 chain, TUBA4A, TUBA1, Tubulin alpha-4A chain, Alpha-tubulin 1, Testis-specific alpha-tubulin, 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. TUBA1A encodes alpha tubulin and is highly similar to the mouse and rat Tuba1 genes. Northern blotting studies have shown that TUBA1A expression is predominantly found in morphologically differentiated neurologic cells. TUBA1A is one of three alpha-tubulin genes in a cluster on chromosome 12q. Mutations in TUBA1A cause lissencephaly type 3 (LIS3) - a neurological condition characterized by microcephaly, mental retardation, and early-onset epilepsy and caused by defective neuronal migration. Alternative splicing results in multiple transcript variants encoding distinct isoforms., Tubulin alpha-1A chain

Molecular Weight: observed band 50kDa

Gene ID: 7846

UniProt: [Q71U36](#)

Pathways: [Microtubule Dynamics](#)

Application Details

Application Notes: Optimal working dilutions should be determined experimentally by the investigator. Suggested starting dilutions are as follows: WB (1:500-1:2000), IHC-P (1:100-1:300), ELISA (1:20000). Not yet tested in other applications.

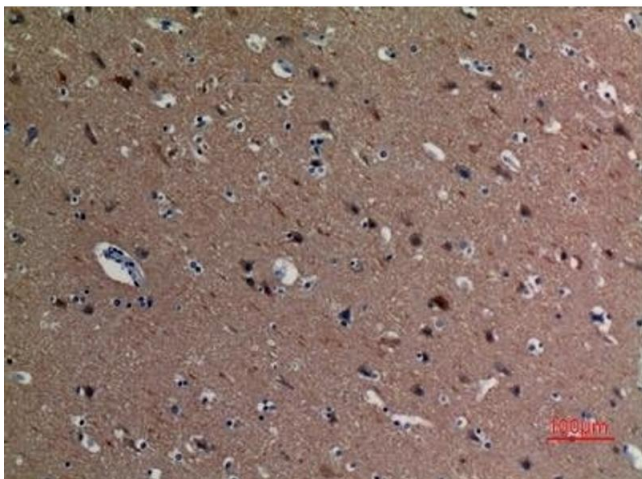
Comment: Primary Antibody

Restrictions: For Research Use only

Handling

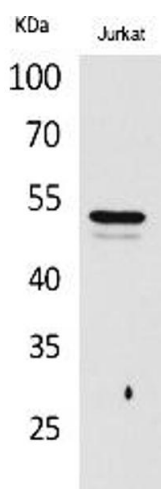
| | |
|--------------------|--|
| Format: | Liquid |
| Concentration: | 1 mg/mL |
| Buffer: | PBS containing 50 % Glycerol, 0.5 % BSA and 0.02 % Sodium Azide. |
| Preservative: | Sodium azide |
| Precaution of Use: | This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only. |
| Storage: | -20 °C |
| Storage Comment: | Stable for one year at -20°C from date of shipment. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap. Aliquot to avoid repeated freezing and thawing. |

Images



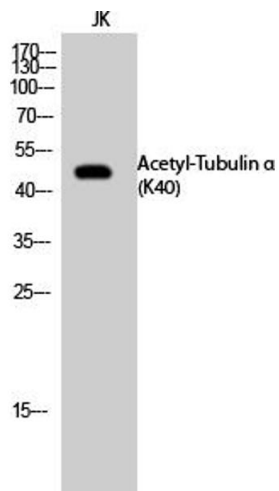
Immunohistochemistry

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



Western Blotting

Image 2. Western Blot analysis of Jurkat cells using Acetyltubulin α (K40) Polyclonal Antibody. Secondary Antibody was diluted at 1:20000.



Western Blotting

Image 3. Western Blot analysis of JK cells using Acetyl-Tubulin α (K40) Polyclonal Antibody. Secondary Antibody was diluted at 1:20000.

Please check the [product details page](#) for more images. Overall 6 images are available for ABIN7212618.