

Datasheet for ABIN7217409
anti-alpha Tubulin antibody (AA 380-460)



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6 Images

Overview

Quantity:	200 µL
Target:	alpha Tubulin (TUBA1)
Binding Specificity:	AA 380-460
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)), Immunofluorescence (IF)

Product Details

Purpose:	Tubulin α Polyclonal Antibody
Immunogen:	Synthesized peptide derived from the C-terminal region of human Tubulin alpha at AA range: 380-460
Isotype:	IgG
Specificity:	Tubulin α Polyclonal Antibody detects endogenous levels of Tubulin α protein.
Purification:	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen

Target Details

Target:	alpha Tubulin (TUBA1)
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Target Details

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

Background: Rabbit Anti-Tubulin α 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, Microtubules of the eukaryotic cytoskeleton perform essential and diverse functions and are composed of a heterodimer of alpha and beta tubulins. TUBA1A 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. Mutations in this gene 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, 10376

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), IF (1:200-1:1000), ELISA (1:5000). Not yet tested in other applications.

Comment: Primary Antibody

Restrictions: For Research Use only

Handling

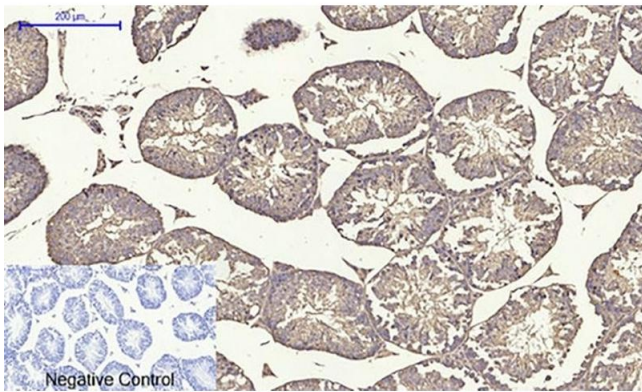
Format: Liquid

Concentration: 1 mg/mL

Handling

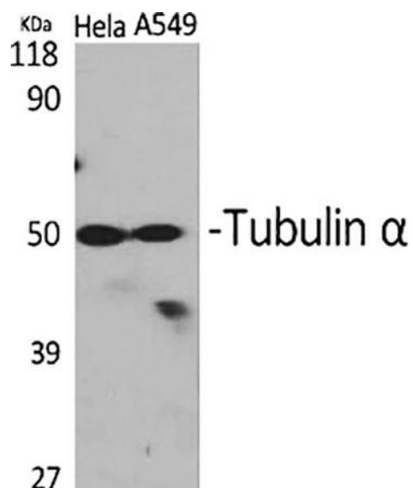
Buffer:	PBS containing 50 % Glycerol, 0.5 % BSA and 0.02 % Sodium Azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Stable for one year at -20°C from 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



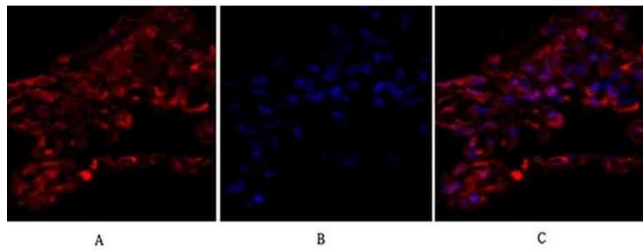
Immunohistochemistry

Image 1. Immunohistochemical analysis of paraffin-embedded mouse testis tissue. 1, Tubulin α Polyclonal Antibody was diluted at 1:200 (4 °C, overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval (>98 °C, 20 min). 3, secondary antibody was diluted at 1:200 (room temperature, 30 min). Negative control was used by secondary antibody only.



Western Blotting

Image 2. Western Blot analysis of HeLa (1), A549 (2), diluted at 1:2000.



Immunofluorescence

Image 3. Immunofluorescence analysis of human lung tissue. 1, Tubulin α Polyclonal Antibody (red) was diluted at 1:200 (4 °C, overnight). 2, Cy3 Labeled secondary antibody was diluted at 1:300 (room temperature, 50 min). 3, Picture B: DAPI (blue) 10 min. Picture A: Target. Picture B: DAPI. Picture C: merge of A+B.

Please check the [product details page](#) for more images. Overall 6 images are available for ABIN7217409.