Product Name: Tubulin α Rabbit Polyclonal Antibody

Catalog #: APRab19422



Summary

Tubulin α Rabbit Polyclonal Antibody **Production Name**

Description Rabbit Polyclonal Antibody

Host Rabbit

Application WB,IHC,IF,ELISA

Reactivity Human, Mouse, Rat, Chicken

Performance

Conjugation Unconjugated Modification Unmodified

Isotype lgG

Clonality Polyclonal Form Liquid

Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw Storage

cycles.

Buffer Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.

Purification Affinity purification

Immunogen

Gene Name TUBA1A

TUBA1A; TUBA3; Tubulin alpha-1A chain; Alpha-tubulin 3; Tubulin B-alpha-1; Tubulin

Alternative Names alpha-3 chain; TUBA1B; Tubulin alpha-1B chain; Alpha-tubulin ubiquitous; Tubulin K-

alpha-1; Tubulin alpha-ubiquitous chain

Gene ID 7846/10376

Q71U36/P68363.The antiserum was produced against synthesized peptide derived SwissProt ID

from human Tubulin alpha. AA range:402-451

Application

WB 1:500 - 1:2000. IHC 1:100 - 1:300. IF 1:200 - 1:1000. ELISA: 1:5000. Not yet tested in **Dilution Ratio**

other applications.



Molecular Weight

50kD

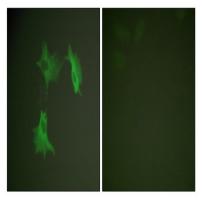
Background

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 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.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 readdition 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.,

Research Area

Gap junction; Pathogenic Escherichia coli infection;

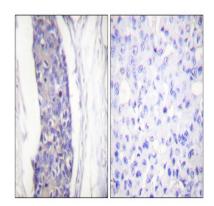
Image Data



Immunofluorescence analysis of NIH/3T3 cells, using Tubulin alpha Antibody. The picture on the right is blocked with the synthesized peptide.

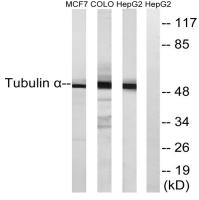
Web: https://www.enkilife.com E-mail: order@enkilife.com techsupport@enkilife.com Tel: 0086-27-87002838

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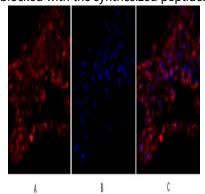


Immunohistochemistry analysis of paraffin-embedded human breast carcinoma tissue, using Tubulin alpha Antibody. The picture on the right is blocked with the synthesized peptide.

MCF7 COLO HepG2

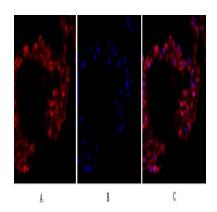


Western blot analysis of lysates from MCF-7, COLO, and HepG2 cells, using Tubulin alpha Antibody. The lane on the right is blocked with the synthesized peptide.

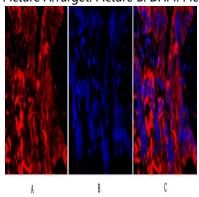


Immunofluorescence analysis of human-lung tissue. 1, Tubulin α Polyclonal Antibody (red) was diluted at 1:200 (4°C, overnight). 2, Cy3 labled Secondary antibody was diluted at 1:300 (room temperature, 50min). 3, Picture B: DAPI (blue) 10min. Picture A: Target. Picture B: DAPI. Picture C: merge of A+B

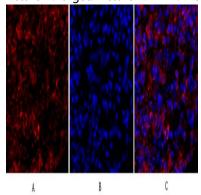




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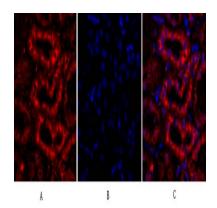


Immunofluorescence analysis of rat-lung tissue. 1,Tubulin α Polyclonal Antibody (red) was diluted at 1:200 (4°C,overnight) . 2, Cy3 labled Secondary antibody was diluted at 1:300 (room temperature, 50min) .3, Picture B: DAPI (blue) 10min. Picture A:Target. Picture B: DAPI. Picture C: merge of A+B

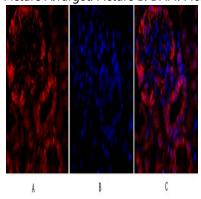


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Immunofluorescence analysis of rat-kidney tissue. 1,Tubulin α Polyclonal Antibody (red) was diluted at 1:200 (4°C,overnight) . 2, Cy3 labled Secondary antibody was diluted at 1:300 (room temperature, 50min) .3, Picture B: DAPI (blue) 10min. Picture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



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

Note

For research use only.