

AC012

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α -Tubulin Mouse mAb

Catalog No.: AC012 **82 Publications**

Basic Information

Observed MW

50kDa

Calculated MW

50kDa

Category

SMab Recombinant Monoclonal Antibody

Applications

WB,IHC-P,IF/ICC,IP,ELISA

Cross-Reactivity

Human,Mouse,Rat

CloneNo number

AMC0479

Background

Microtubules of the eukaryotic cytoskeleton perform essential and diverse functions and are composed of a heterodimer of alpha and beta tubulin. The genes encoding these microtubule constituents are part of 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 and they are highly conserved among and between species. This gene encodes an alpha tubulin that is a highly conserved homolog of a rat testis-specific alpha tubulin. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.

Recommended Dilutions

WB 1:5000 - 1:10000

IHC-P 1:50 - 1:200

IF/ICC 1:100 - 1:200

IP 0.5ug-4ug antibody for
200ug-400ug extracts
of whole cells

Immunogen Information

Gene ID

7277

Swiss Prot

P68366

Immunogen

Recombinant protein of human α -Tubulin

Synonyms

ALS22; TUBA1; H2-ALPHA; α -Tubulin

Contact



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Product Information

Source

Mouse

Isotype

IgG1

Purification

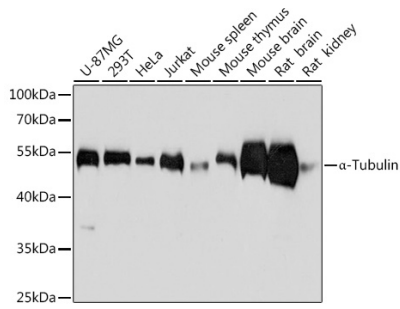
Affinity purification

Storage

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

Buffer: PBS with 0.02% sodium azide,1% BSA,50% glycerol,pH7.3.

Validation Data



Western blot analysis of various lysates using α -Tubulin Mouse mAb (AC012) at 1:5000 dilution.

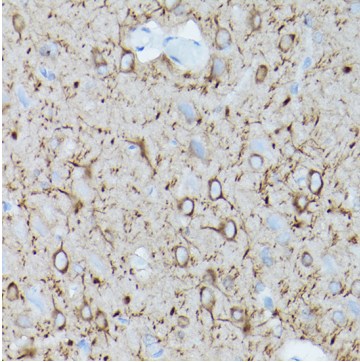
Secondary antibody: HRP Goat Anti-Mouse IgG (H+L) (AS003) at 1:10000 dilution.

Lysates/proteins: 25 μ g per lane.

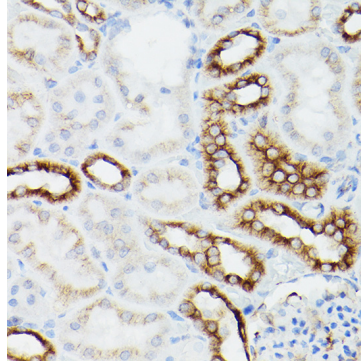
Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

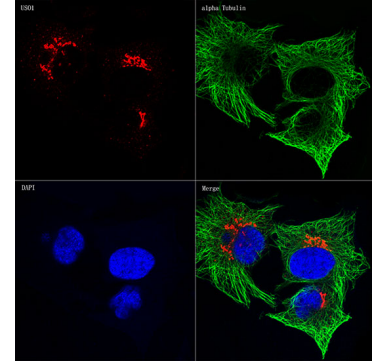
Exposure time: 5s.



Immunohistochemistry analysis of paraffin-embedded Mouse brain using α -Tubulin Mouse mAb (AC012) at dilution of 1:100 (40x lens). Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.



Immunohistochemistry analysis of paraffin-embedded Mouse kidney using α -Tubulin Mouse mAb (AC012) at dilution of 1:100 (40x lens). Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.



Confocal imaging of HeLa cells using α -Tubulin Mouse mAb (AC012, dilution 1:200)(Green). The cells were counterstained with USO1 Rabbit mAb (A20950, dilution 1:100) (Red). DAPI was used for nuclear staining (blue). Objective: 60x.