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α-Tubulin Rabbit mAb

Catalog No.: A6830 Recombinant 13 Publications

Basic Information

Observed MW
55 kDa

Calculated MW
50 kDa

Category
Primary antibody

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

Cross-Reactivity
Human, Mouse, Rat

CloneNo number
ARC2486

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	1:10000 - 1:20000
IHC-P	1:200 - 1:2000
IF/ICC	1:100 - 1:800
IP	0.5μg-4μg antibody for 200μg-400μg extracts of whole cells
ELISA	Recommended starting concentration is 1 μg/mL. Please optimize the concentration based on your specific assay requirements.

Immunogen Information

Gene ID
7277

Swiss Prot
P68366

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

Synonyms
ALS22; TUBA1; H2-ALPHA; α-Tubulin

Product Information

Source
Rabbit

Isotype
IgG

Purification
Affinity purification

Storage
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS containing 50% glycerol and 0.05% BSA, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.

Contact

400-999-6126

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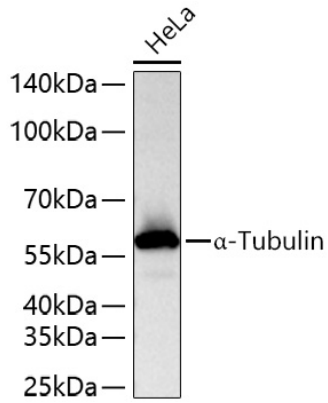
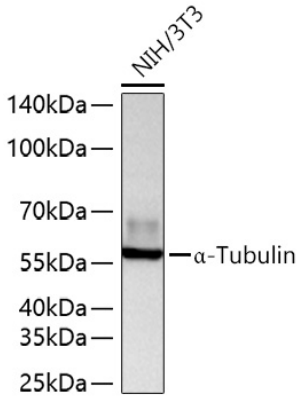
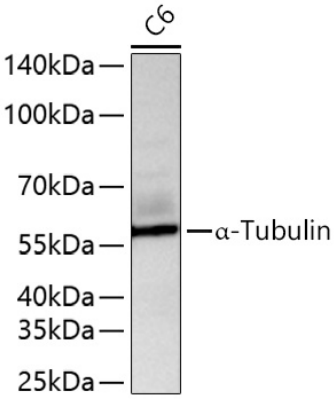
Validation Data



Western blot analysis of lysates from HeLa cells using α-Tubulin Rabbit mAb (A6830) at 1:10000 dilution incubated overnight at 4℃.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 10 s.

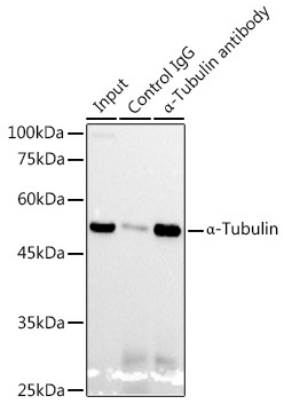


Western blot analysis of lysates from NIH/3T3 cells using α-Tubulin Rabbit mAb (A6830) at 1:10000 dilution incubated overnight at 4℃.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 20 s.

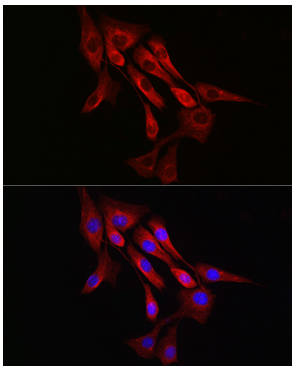


Western blot analysis of lysates from C6 cells using α-Tubulin Rabbit mAb (A6830) at 1:10000 dilution incubated overnight at 4℃.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 45 s.

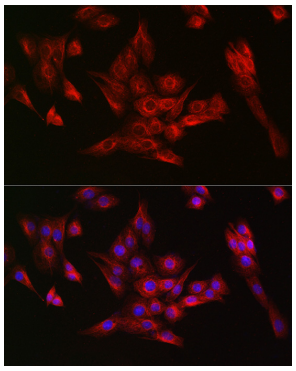
Validation Data



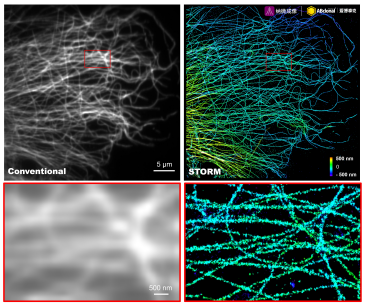
Immunoprecipitation analysis of 300 µg extracts from HeLa cells using 3 µg α-Tubulin Rabbit mAb (A6830). Western blot was performed from the immunoprecipitate using α-Tubulin Rabbit mAb (A6830) at a dilution of 1:1000.



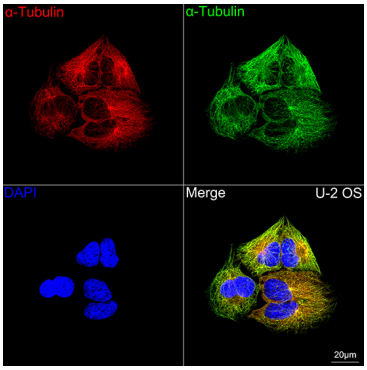
Immunofluorescence analysis of NIH/3T3 cells using α-Tubulin Rabbit mAb (A6830) at dilution of 1:100 (40x lens). Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.



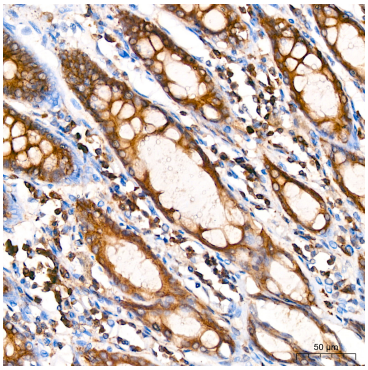
Immunofluorescence analysis of PC-12 cells using α-Tubulin Rabbit mAb (A6830) at dilution of 1:100 (40x lens). Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.



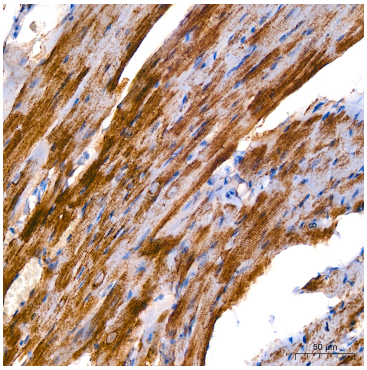
The STORM super-resolution (SR) imaging of COS7 cells using α-Tubulin Rabbit mAb (A6830, ABclonal) at dilution of 1:50 with 3% paraformaldehyde (PFA) +0.1% glutaraldehyde (GA) fixation. The immunostaining was performed by Full Automatic Immunofluorescence Workflow System (Workflow Ultra300, Nano-Micro imaging, China). Image was performed with Single-Molecule Localization Super-Resolution Microscopy (STORM Ultra300, Nano-Micro imaging, China). We acknowledge Nano-Micro imaging Biotechnology Co., Ltd. (□□□□□□□□□□□□□□□) in SR image processing and kindly providing this image.



Confocal imaging of U-2 OS cells using α-Tubulin Rabbit mAb (A6830, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution



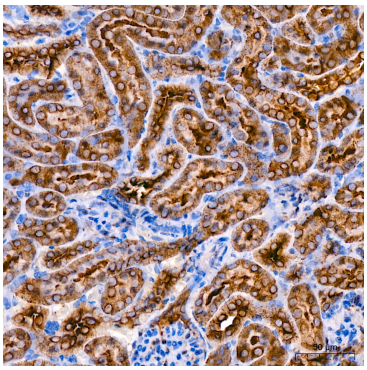
Immunohistochemistry analysis of paraffin-embedded Human colon using α-Tubulin Rabbit mAb (A6830) at dilution of 1:200 (40x lens). High pressure antigen retrieval



Immunohistochemistry analysis of paraffin-embedded Mouse heart using α-Tubulin Rabbit mAb (A6830) at dilution of 1:200 (40x lens). High pressure antigen retrieval

Validation Data

1:500) (Red). The cells were counterstained with α-Tubulin Mouse 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.



Immunohistochemistry analysis of paraffin-embedded Mouse kidney using α-Tubulin Rabbit mAb (A6830) at dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.

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