10320 Camino Santa Fe, Suite G
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α-tubulin (Acetyl Lys40) Monoclonal Antibody(4A8)

Catalog # AP63647

Specification

α-tubulin (Acetyl Lys40) Monoclonal Antibody(4A8) - Product Information

Application	**WB, IHC-P, IF**
Primary Accession	P68363
Reactivity	**Human, Rat, Mouse**
Host	**Mouse**
Clonality	**Monoclonal**

α-tubulin (Acetyl Lys40) Monoclonal Antibody(4A8) - Additional Information

Gene ID 10376

Other Names
Tubulin alpha-1B chain (Alpha-tubulin ubiquitous) (Tubulin K-alpha-1) (Tubulin alpha-ubiquitous chain)

Dilution
WB~~WB 1:1000-2000, IHC 1:50-100 IF 1:200
IHC-P~~N/A
IF~~WB 1:1000-2000, IHC 1:50-100 IF 1:200

Format
Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.

Storage Conditions
-20℃

α-tubulin (Acetyl Lys40) Monoclonal Antibody(4A8) - Protein Information

Name TUBA1B

Function
Tubulin is the major constituent of microtubules, protein filaments consisting of alpha- and beta-tubulin heterodimers (PubMed:38305685, PubMed:34996871, PubMed:38609661). Microtubules grow by the addition of GTP-tubulin dimers to the microtubule end, where a stabilizing cap forms (PubMed:38305685, PubMed:34996871, PubMed:38609661). Below the cap, tubulin dimers are in GDP-bound state, owing to GTPase activity of alpha-tubulin (PubMed:34996871, PubMed:38609661).

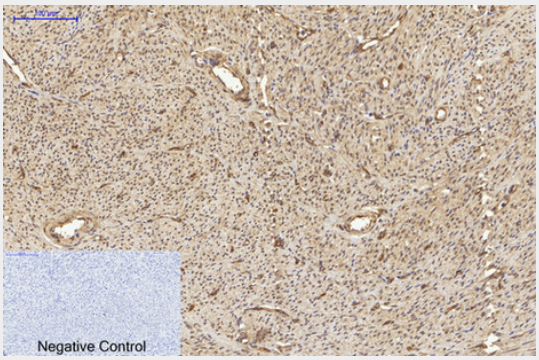
Cellular Location
Cytoplasm, cytoskeleton

α-tubulin (Acetyl Lys40) Monoclonal Antibody(4A8) - Protocols

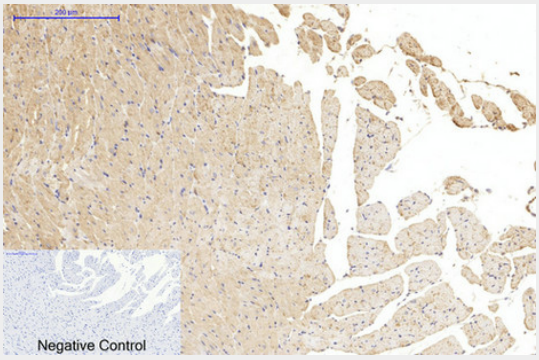
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

α-tubulin (Acetyl Lys40) Monoclonal Antibody(4A8) - Images



Immunohistochemical analysis of paraffin-embedded Human-uterus tissue. 1,α-tubulin (Acetyl Lys40) Monoclonal Antibody(4A8) was diluted at 1:200(4°C,overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval(>98°C,20min). 3,Secondary antibody was diluted at 1:200(room tempeRature, 30min). Negative control was used by secondary antibody only.



Immunohistochemical analysis of paraffin-embedded Rat-heart tissue. 1,α-tubulin (Acetyl Lys40) Monoclonal Antibody(4A8) was diluted at 1:200(4°C,overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval(>98°C,20min). 3,Secondary antibody was diluted at 1:200(room tempeRature, 30min). Negative control was used by secondary antibody only.

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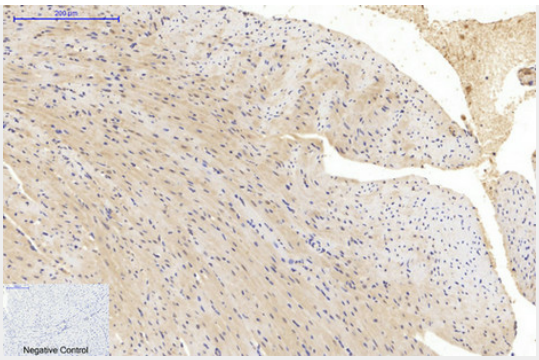
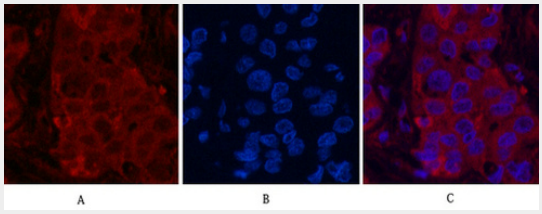
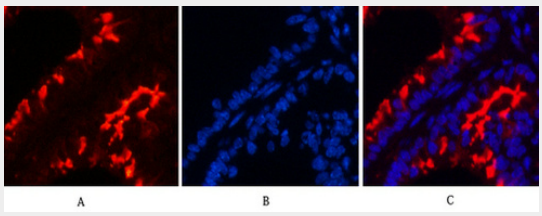


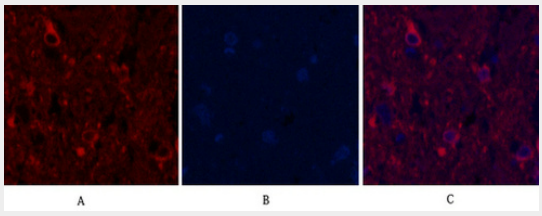
Immunohistochemical analysis of paraffin-embedded Mouse-heart tissue. 1,α-tubulin (Acetyl Lys40) Monoclonal Antibody(4A8) was diluted at 1:200(4°C,overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval(>98°C,20min). 3,Secondary antibody was diluted at 1:200(room tempeRature, 30min). Negative control was used by secondary antibody only.



Immunofluorescence analysis of Human-liver-cancer tissue. 1,α-tubulin (Acetyl Lys40) Monoclonal Antibody(4A8)(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 Mouse-lung tissue. 1,α-tubulin (Acetyl Lys40) Monoclonal Antibody(4A8)(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-spinal-cord tissue. 1,α-tubulin (Acetyl Lys40) Monoclonal Antibody(4A8)(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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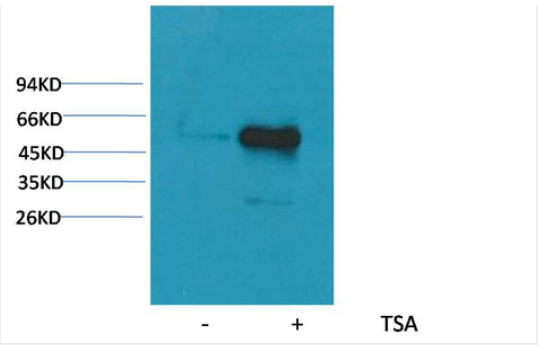
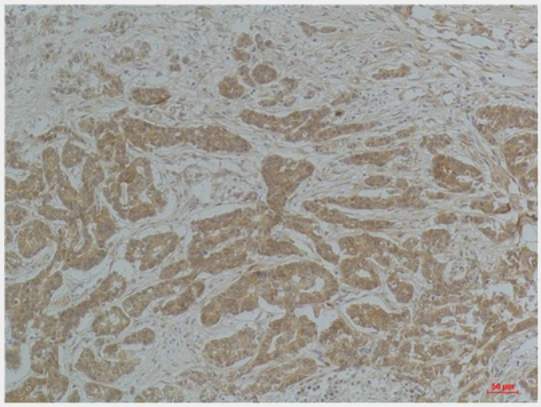
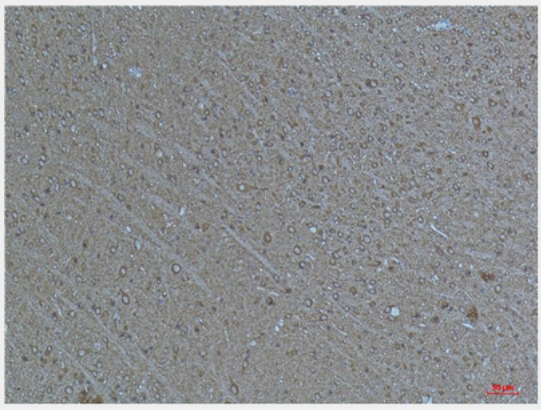


Western blot analysis of extracts from Hela cells, untreated (-) or treated with TSA (1μM, 18 hr; +), using Acetyl- a-tubulin(Lys40) Mouse mAb 1:2000.



Immunohistochemical analysis of paraffin-embedded Human Breast Carcinoma using a-tubulin(Acetyl Lys40) Mouse mAb diluted at 1:200.



Immunohistochemical analysis of paraffin-embedded Mouse Brain Tissue using a-tubulin(Acetyl Lys40) Mouse mAb diluted at 1:200.

α-tubulin (Acetyl Lys40) Monoclonal Antibody(4A8) - Background

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.

α-tubulin (Acetyl Lys40) Monoclonal Antibody(4A8) - Citations

- DDHD1, but Not DDHD2, Suppresses Neurite Outgrowth in SH-SY5Y and PC12 Cells by Regulating Protein Transport From Recycling Endosomes