

## beta Tubulin Rabbit mAb

Catalog No: #48659



Package Size: #48659-1 50ul #48659-2 100ul

Orders: [order@signalwayantibody.com](mailto:order@signalwayantibody.com)Support: [tech@signalwayantibody.com](mailto:tech@signalwayantibody.com)

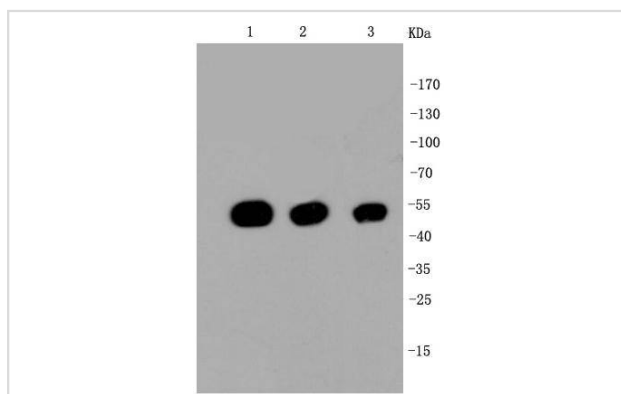
## Description

Product Name	beta Tubulin Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal antibody
Clone No.	SR25-04
Purification	ProA affinity purified
Applications	WB, ICC, IHC, FC
Species Reactivity	Human;Mouse;Rat
Immunogen Description	recombinant protein
Conjugates	Unconjugated
Other Names	Beta 4 tubulin antibody Beta 5 tubulin antibody BetaTubulin antibody TBB5_HUMAN antibody TUBB antibody TUBB2 antibody TUBB2A antibody TUBB5 antibody tubulin beta 2A antibody Tubulin beta chain antibody Tubulin beta-5 chain antibody
Accession No.	Swiss-Prot#:P07437
Calculated MW	50 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

## Application Details

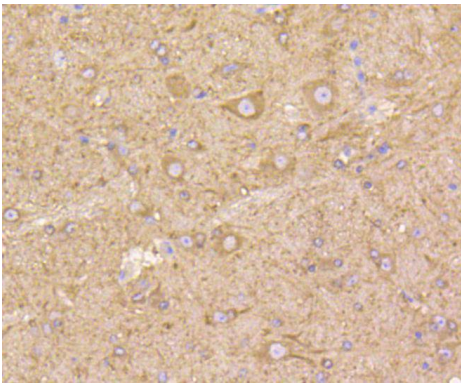
WB: 1:1,000-5,000 IHC: 1:50-1:200 ICC: 1:50-1:200 FC: 1:10-1:100

## Images

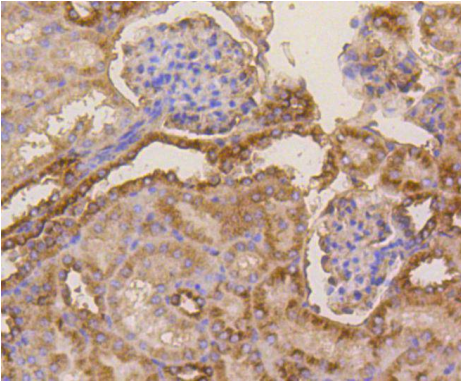


Western blot analysis of beta Tubulin on different cell lysates using anti-beta Tubulin antibody at 1/1,000 dilution. Positive control:

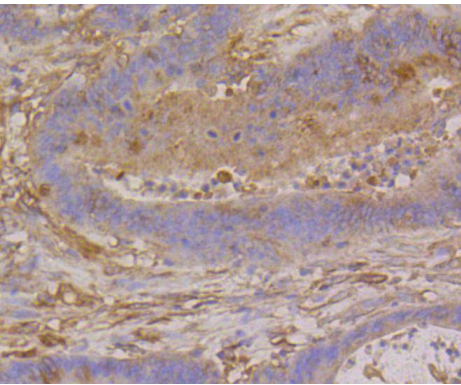
Lane 1: Hela  
Lane 2: NIH/3T3  
Lane 3: PC12



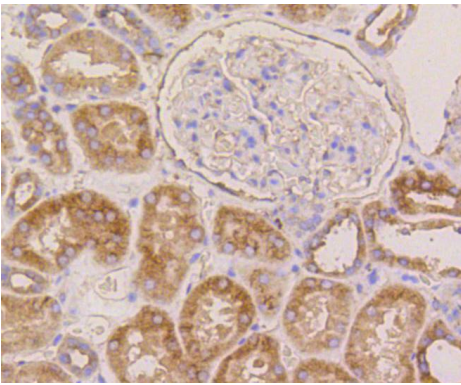
Immunohistochemical analysis of paraffin-embedded mouse brain tissue using anti-beta Tubulin antibody. Counter stained with hematoxylin.



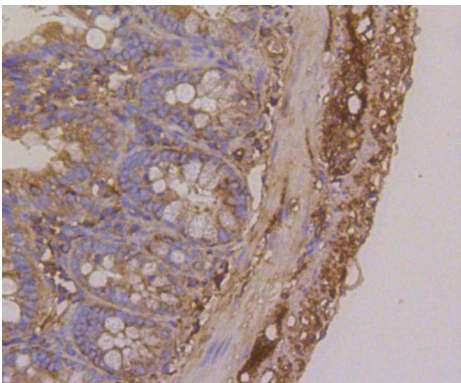
Immunohistochemical analysis of paraffin-embedded mouse kidney tissue using anti-beta Tubulin antibody. Counter stained with hematoxylin.



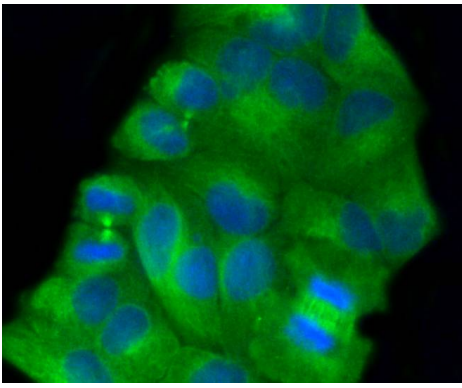
Immunohistochemical analysis of paraffin-embedded human colon cancer tissue using anti-beta Tubulin antibody. Counter stained with hematoxylin.



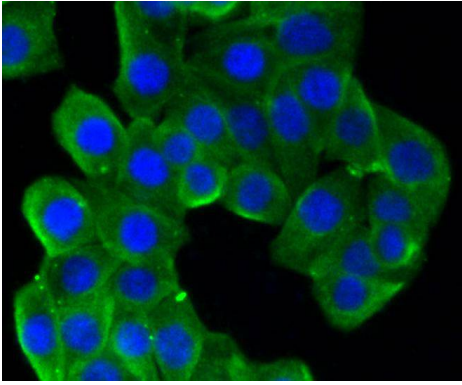
Immunohistochemical analysis of paraffin-embedded human kidney tissue using anti-beta Tubulin antibody. Counter stained with hematoxylin.



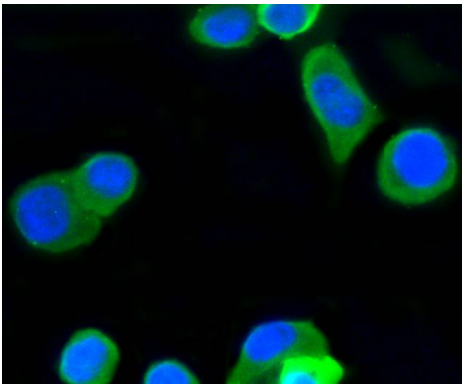
Immunohistochemical analysis of paraffin-embedded mouse colon tissue using anti-beta Tubulin antibody. Counter stained with hematoxylin.



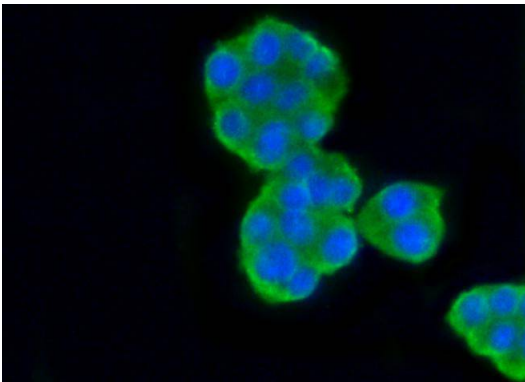
ICC staining beta Tubulin in HeLa cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



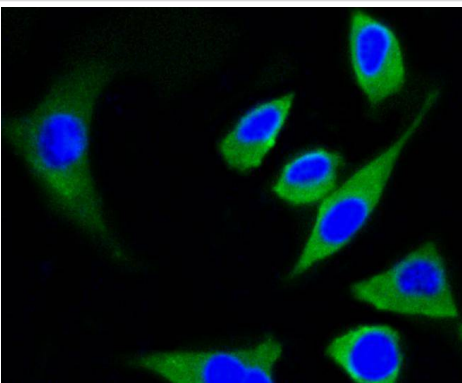
ICC staining beta Tubulin in CRC cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



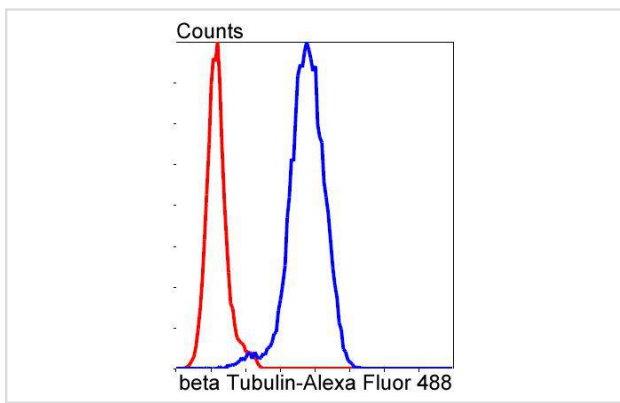
ICC staining beta Tubulin in N2A cells (green). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining beta Tubulin in PC12 cells (green). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining beta Tubulin in SH-SY-5Y cells (green). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



Flow cytometric analysis of NIH/3T3 cells with beta Tubulin antibody at 1/50 dilution (blue) compared with an unlabelled control (cells without incubation with primary antibody; red). Alexa Fluor 488-conjugated goat anti rabbit IgG was used as the secondary antibody.

## Background

Tubulin is one of several members of a small family of globular proteins. The most common members of the tubulin family are  $\alpha$ -tubulin and  $\beta$ -tubulin. The beta-tubulin (relative molecular weight about 50 kDa) is counterpart of alpha-tubulin in tubulin heterodimer, it is coded by multiple tubulin genes and it is also posttranslationally modified. Heterogeneity of subunit is concentrated in C-terminal structural domain. Beta-Tubulin may have bound GTP or GDP. Under certain conditions  $\beta$ -tubulin can hydrolyze its bound GTP to GDP plus  $P_i$ , release the  $P_i$ , and exchange the GDP for GTP.

## References

1. "Tumoral and tissue-specific expression of the major human beta-tubulin isotypes." Leandro-Garcia L.J., Leskela S., Landa I., Montero-Conde C., Lopez-Jimenez E., Leton R., .Cytoskeleton 67:214-223(2010).
2. "Five mouse tubulin isotypes and their regulated expression during development." Lewis S.A., Lee M.G.-S., Cowan N.J.J. Cell Biol. 101:852-861(1985).

## Published Papers

el at., DDAH1 Protects against Cardiotoxin-Induced Muscle Injury and Regeneration In Antioxidants (Basel) On 2023 Sep 13 by Fei Feng , Bingqing Cui et al.. PMID:37760057, , (2023)

[PMID:37760057](#)

el at., Aerobic Exercise Protects against Cardiotoxin-Induced Skeletal Muscle Injury in a DDAH1-Dependent Manner. In Antioxidants (Basel) on 2024 Sep 1 by Fei Feng, Kai Luo, et al.. PMID:39334728, , (2024)

[PMID:39334728](#)

Jinhuan Qiu et al., A Novel CYP2E1 Inhibitor, 4 $\beta$  • Methyl $\beta$  • 5 $\beta$  • Acetylthiazole (Q11), Alleviates Obesity Via Modulating Adipose Inflammation and Mitochondrial Dysfunction, Advanced Science, (2025)

[PMID:41420839](#)

Note: This product is for in vitro research use only and is not intended for use in humans or animals.