Anti-Beta III Tubulin

0805-3

Product Type:

Applications:

Molecular Wt:

Description:

Species reactivity:

II Tubulin Antibody	/.
Rabbit polyclonal IgG, primary antibodies	
Human, Mouse, Rat	
WB, IF-Cell, IHC-P, FC	
Predicted band size: 50 kDa	
Tubulin is the major constituent of microtubules. It binds two moles of G exchangeable site on the beta chain and one at a non-exchangeable site chain. TUBB3 plays a critical role in proper axon guidance and maintenar NTN1/Netrin-1 to its receptor UNC5C might cause dissociation of UNC5C from TUBB3 in microtubules and thereby lead to increased microtubule dynar repulsion. Plays a role in dorsal root ganglion axon projection towards the sp	TP, one at an e on the alpha nce. Binding of om polymerized mics and axon inal cord.

- Immunogen: Synthetic peptide within N-terminal Human Neuron-specific class III β -tubulin.
- **Positive control:** Hela cell lysate, HepG2, NIH/3T3, rat brain tissue, rat kidney tissue, human colon cancer tissue.
- Subcellular location: Cytoplasm. Cytoskeleton. Microtubule, Cell projection.

Database links: SwissProt: Q13509 Human | Q9ERD7 Mouse | Q4QRB4 Rat

Recommended Dilutions: WR 1.5 000-1.10 000

	1.3,000-1.10,000	
IF-Cell	1:50-1:200	
IHC-P	1:100-1:400	
FC	1:50-1:100	
Storage Buffer:	Ide Buffer: 1*PBS (pH7.4), 0.2% BSA, 25% Glycerol. Preservative: 0.05% Sodium Azide.	
U U		
Storage Instruction:	Store at +4 $^{\circ}$ after thawing Aliguot store at -20 $^{\circ}$ Avoid repeated freeze / thaw cycles	
Duritur	Immunegen officity purified	
Purity:		

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Technical:0086-571-89986345

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Applications:WB=Western blot IHC-P=Immunohistochemistry (paraffin) IF-Cell=Immunofluorescence (Cell) IF-Tissue=Immunofluorescence (Tissue) FC=Flow cytometry IP=Immunoprecipitation

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Images



Fig1: Western blot analysis of Beta III Tubulin on Hela cell lysate using anti-Beta III Tubulin antibody at 1/10,000 dilution.



Fig2: ICC staining Beta III Tubulin in HepG2 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



Fig3: ICC staining Beta III Tubulin in NIH/3T3 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



Fig4: Immunohistochemical analysis of paraffin-embedded rat brain tissue using anti-Beta III Tubulin antibody. Counter stained with hematoxylin.

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Fig5: Immunohistochemical analysis of paraffin-embedded rat kidney tissue using anti-Beta III Tubulin antibody. Counter stained with hematoxylin.



Fig6: Immunohistochemical analysis of paraffin-embedded human colon cancer tissue using anti-Beta III Tubulin antibody. Counter stained with hematoxylin.



Tubulin beta-3 chain-Alexa Fluor 488

Fig7: Flow cytometric analysis of Hela cells with Beta III Tubulin antibody at 1/100 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.

Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

Background References

- 1. Tischfield M A et al. Human TUBB3 mutations perturb microtubule dynamics, kinesin interactions, and axon guidance. Cell 140:74-87 (2010).
- 2. Poirier K et al. Mutations in the neuronal ss-tubulin subunit TUBB3 result in malformation of cortical development and neuronal migration defects. Hum Mol Genet 19:4462-4473 (2010).

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