

# Product Datasheet

## beta-III Tubulin Antibody (2E9) NBP1-42568SS

Unit Size: 0.025 ml

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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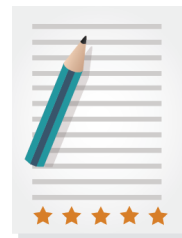
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**NBP1-42568SS**

beta-III Tubulin Antibody (2E9)

Product Information	
Unit Size	0.025 ml
Concentration	This product is unpurified. The exact concentration of antibody is not quantifiable.
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	2E9
Preservative	0.03% Sodium Azide
Isotype	IgG1
Purity	Unpurified
Buffer	Ascites
Target Molecular Weight	50 kDa

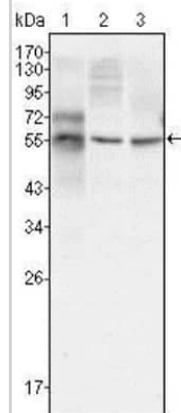
Product Description	
Host	Mouse
Gene ID	10381
Gene Symbol	TUBB3
Species	Human, Rat
Reactivity Notes	Use in Rat reported in scientific literature (PMID:34246061)
Marker	Neuronal Marker
Immunogen	Full length recombinant human Tubulin Beta 3 expressed in E. coli. [UniProt# Q13509].

Product Application Details	
Applications	Western Blot, Simple Western, ELISA, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry
Recommended Dilutions	Western Blot 1:500-1:2000, Simple Western 1:500, Flow Cytometry 1:200-1:400, ELISA 1:10000, Immunohistochemistry reported in scientific literature (PMID 27609227), Immunocytochemistry/ Immunofluorescence 1:200-1:1000
Application Notes	In Simple Western only 10 - 15 uL of the recommended dilution is used per data point. See <a href="#">Simple Western Antibody Database</a> for Simple Western validation: Tested in HeLa lysate 1.0 mg/mL, separated by Size, antibody dilution of 1:500, apparent MW was 49 kDa. Separated by Size-Wes, Sally Sue/Peggy Sue.

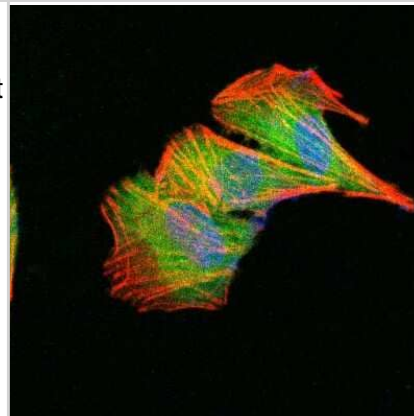


## Images

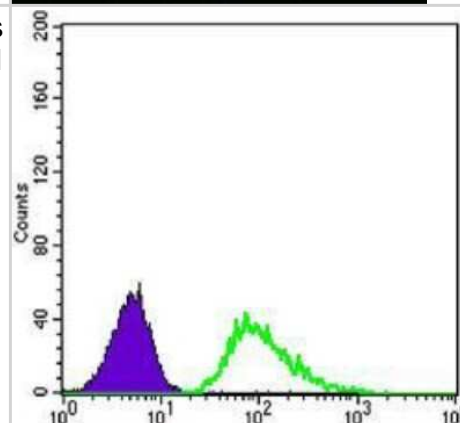
Western Blot: beta-III Tubulin Antibody (2E9) [NBP1-42568] - Analysis of Tubulin Beta 3 mouse mAb against (1) HepG2, (2) A549, and (3) Hela cell lysates.



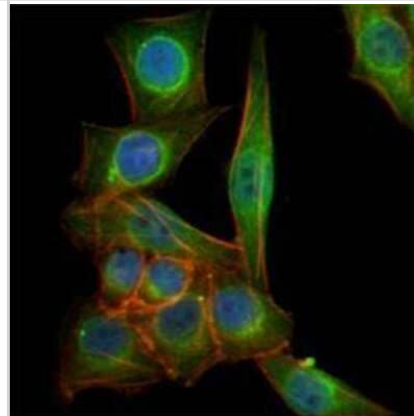
Immunocytochemistry/Immunofluorescence: beta-III Tubulin Antibody (2E9) [NBP1-42568] - Confocal analysis of SHSY5Y cells using Tubulin Beta 3 antibody (NBP1-42568, 1:5). An Alexa Fluor 488-conjugated Goat to mouse IgG was used as secondary antibody (green). Actin filaments were labeled with Alexa Fluor 568 phalloidin (red). DAPI was used to stain the cell nuclei (blue).



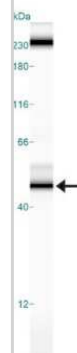
Flow Cytometry: beta-III Tubulin Antibody (2E9) [NBP1-42568] - Analysis of A549 cells using anti-Tubulin Beta 3 mAb (green) and negative control (purple).



Immunocytochemistry/Immunofluorescence: beta-III Tubulin Antibody (2E9) [NBP1-42568] - Analysis of PANC-1 cells using Tubulin Beta 3 mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.



Simple Western: beta-III Tubulin Antibody (2E9) [NBP1-42568] - Lane view shows a specific band for Tubulin Beta 3 in 1.0 mg/ml of HeLa lysate. This experiment was performed under reducing conditions using the 12-230 kDa separation system.



## Publications

J Park, I Wetzel, I Marriott, D Dréau, C D'Avanzo, DY Kim, RE Tanzi, H Cho A 3D human triculture system modeling neurodegeneration and neuroinflammation in Alzheimer's disease Nat. Neurosci., 2018-06-27;21(7):941-951. 2018-06-27 [PMID: 29950669]

Hou Y, Yang D, Wang X Et Al. Pseudoginsenoside-F11 promotes functional recovery after transient cerebral ischemia by regulating the microglia/macrophage polarization in rats International immunopharmacology 2021-07-07 [PMID: 34246061] (ICC/IF)

Chien My, Chuang Ch, Chern Cm et al. Salvianolic acid A alleviates ischemic brain injury through the inhibition of inflammation and apoptosis and the promotion of neurogenesis in mice. Free Radic. Biol. Med. 2016-09-05 [PMID: 27609227] (IF/IHC)



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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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