Product Datasheet

beta-III Tubulin Antibody (2G10)
NBP2-37816

Unit Size: 20uL

Store at -20C. Avoid freeze-thaw cycles.

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Publications: 1

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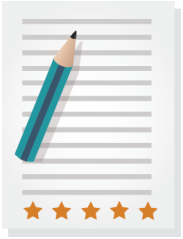
Updated 10/23/2024 v.20.1



NBP2-37816

beta-III Tubulin Antibody (2G10)

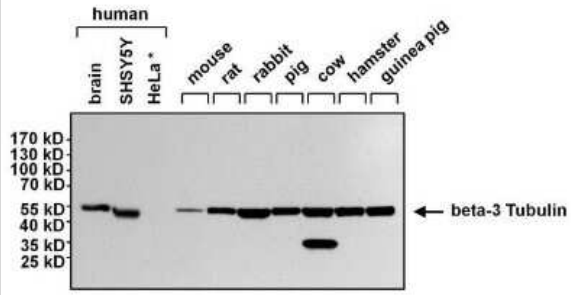
Product Information	
Unit Size	20uL
Concentration	1 mg/ml
Storage	Store at -20C. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	2G10
Preservative	0.05% Sodium Azide
Isotype	IgG2a
Purity	Protein A purified
Buffer	PBS with 1 mg/ml BSA and 30% glycerol
Target Molecular Weight	50 kDa

Product Description	
Host	Mouse
Gene ID	10381
Gene Symbol	TUBB3
Species	Human, Mouse, Rat, Porcine, Bovine, Guinea Pig, Hamster, Rabbit
Reactivity Notes	Please note that this antibody is reactive to Mouse and derived from the same host, Mouse. Additional Mouse on Mouse blocking steps may be required for IHC and ICC experiments. Please contact Technical Support for more information.
Specificity/Sensitivity	Western blot analysis of MA1-118Detects an ~50 kDa protein in neuronal-type cells. In bovine, a unknown band at ~32 kDa is also detected. MA1-118 shows specificity to beta-3 Tubulin and is non-reactive to lysates from non-neuronal cell types (e.g. HeLa cell lysate).
Immunogen	A synthetic peptide corresponding to amino acids 436-450 from rat neuronal specific beta-3 tubulin.

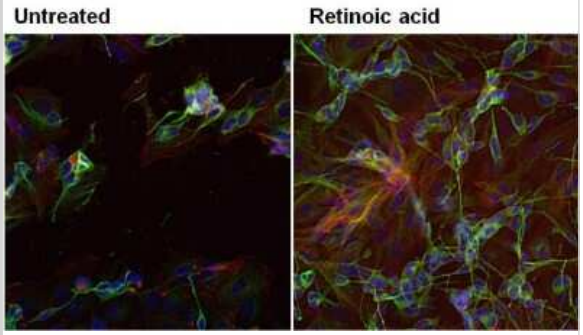
Product Application Details	
Applications	Western Blot, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunoprecipitation
Recommended Dilutions	Western Blot 1:500 - 1:2000, Flow Cytometry 1:50, Immunohistochemistry 1:50 - 1:500, Immunocytochemistry/ Immunofluorescence 1:50 - 1:200, Immunoprecipitation 5 ug

Images

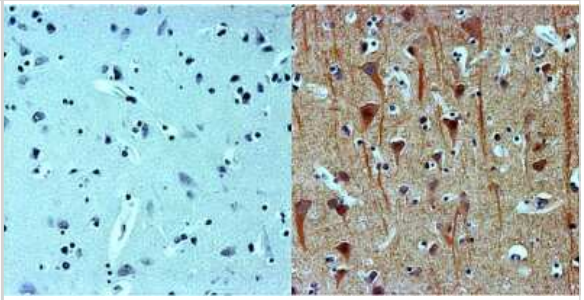
Western Blot: beta-III Tubulin Antibody (2G10) [NBP2-37816] - Analysis of 25 ug of various brain, SHSY5Y, and HeLa cell lysates and 10ul of PageRuler Prestained Protein Ladder.



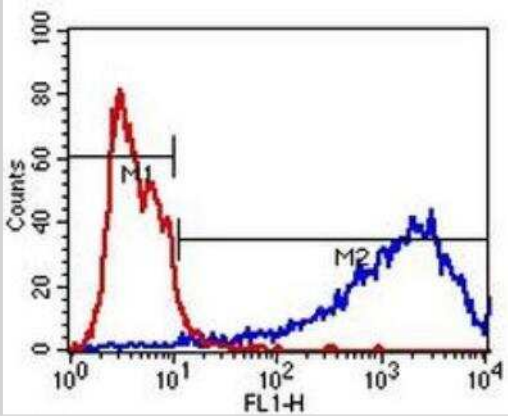
Immunocytochemistry/Immunofluorescence: beta-III Tubulin Antibody (2G10) [NBP2-37816] - Analysis of beta-3 Tubulin in SHSY5Y cells (human neuroblast) either left untreated (left panel) or treated with 10uM retinoic acid (right panel) for 72 hours. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 10 minutes at room temperature. Cells were blocked with 1% Blocker BSA for 15 minutes at room temperature. Cells were probed without (left panel) or with (right panel) a beta-3 Tubulin monoclonal antibody at a dilution of 1:100 for at least 1 hour at room temperature, washed with PBS, and incubated with a DyLight 488-conjugated goat anti-mouse IgG secondary antibody. F-Actin (red) was stained with DyLight-554 Phalloidin and nuclei (blue) were stained with Hoechst 33342 dye.



Immunohistochemistry: beta-III Tubulin Antibody (2G10) [NBP2-37816] - Normal biopsies of deparaffinized human brain tissues.



Flow Cytometry: beta-III Tubulin Antibody (2G10) [NBP2-37816] - Analysis of beta-3 Tubulin (blue histogram) on human SHSY5Y neuroblast cells. Cells were harvested, fixed with 4% formaldehyde, washed with PBS, and incubated with a beta-3 Tubulin monoclonal antibody at a 1:50 dilution or PBS alone (red histogram) for 1 hour at room temperature. For flow cytometry analysis, a 30-minute incubation with DyLight 488 goat anti-mouse IgG secondary antibody was performed and 10,000 cells were acquired for each sample.



Immunoprecipitation: beta-III Tubulin Antibody (2G10) [NBP2-37816] - Analysis of beta-3 Tubulin was performed using SHSY5Y whole cell lysate. Antigen-antibody complexes were formed by incubating 300ug of lysate with 5ug of a beta-3 Tubulin monoclonal antibody overnight on a rocking platform at 4C. The immune complexes were captured on 50ul Protein A/G Agarose, washed extensively, and eluted with 5X Lane Marker Reducing Sample Buffer. SHSY5Y cell lysate (30ug) was loaded as a positive control (left lane). The sample was resolved on a 4-20% Tris-HCl polyacrylamide gel, transferred to a PVDF membrane, and blocked with 5% BSA/TBS-0.1%Tween for at least 1 hour. The membrane was probed with a beta-3 Tubulin monoclonal antibody at a dilution of 1:1000 overnight rotating at 4C, washed in TBST, and probed with Clean-blot IP Detection Reagent at a dilution of 1:1000 for at least 1 hour. Chemiluminescent detection was performed using SuperSignal West Pico.

Publications

Logan CM, Fernandes-Cunha GM, Chen F et al. In Situ-forming Collagen Hydrogels Crosslinked by Multifunctional Polyethylene Glycol as a Matrix Therapy for Corneal Defects: 2-Month Follow-up In Vivo Cornea 2023-01-01 [PMID: 35965399]

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Products Related to NBP2-37816

HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-96778	Mouse IgG2a Isotype Control (M2A)
NBP2-22901	Recombinant Human beta-III Tubulin His Protein

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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