

Product Datasheet

alpha Tubulin 4a Antibody (B-5-1-2) - BSA Free NB120-11304

Unit Size: 0.1 ml

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

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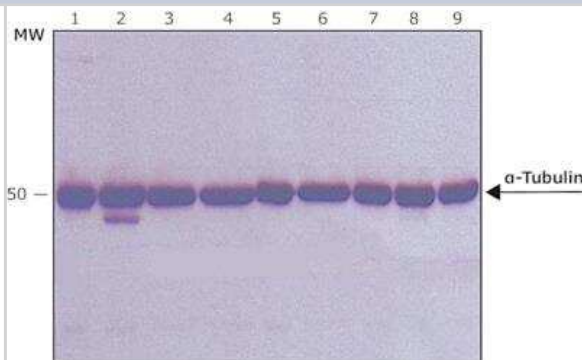
NB120-11304

alpha Tubulin 4a Antibody (B-5-1-2) - BSA Free

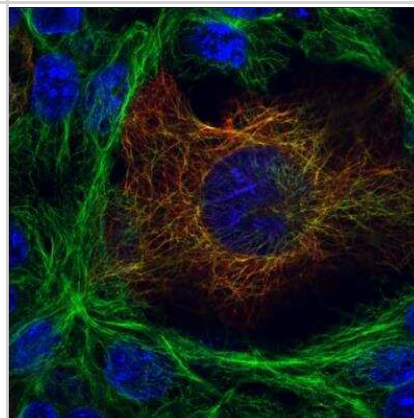
Product Information	
Unit Size	0.1 ml
Concentration	2.0 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	B-5-1-2
Preservative	0.9% Sodium Azide
Isotype	IgG1
Purity	Protein A or G purified
Buffer	10mM PBS (pH 7.4)
Target Molecular Weight	~50 kDa
Product Description	
Host	Mouse
Gene ID	7277
Gene Symbol	TUBA4A
Species	Human, Mouse, Rat, Bovine, Chicken, Primate
Reactivity Notes	Cross-reacts with African Green Monkey, Chlamydomonas reinhardtii, kangaroo rat and Sea Urchin. Not yet tested in other species. 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	Recognizes an epitope located at the C-terminal end of the alpha-tubulin isoform in a variety of organisms.
Immunogen	Sarkosyl-resistant filaments from Strongylocentrotus purpuratus (sea urchin).
Product Application Details	
Applications	Western Blot, Simple Western, Immunocytochemistry/ Immunofluorescence, Immunoprecipitation, Microarray
Recommended Dilutions	Western Blot 0.25-0.5 ug/ml, Simple Western, Immunocytochemistry/ Immunofluorescence 0.5-1 ug/ml, Immunoprecipitation 1:10-1:500, Microarray
Application Notes	ICC: Concentration is recommended using cultured chicken fibroblasts (CFB). WB: Concentration is recommended using a total cell extract of the human foreskin fibroblast cell line (FS11). Predicted molecular weight: 50 kDa. See Simple Western Antibody Database for Simple Western validation: tested in Caco2 cell lysates; antibody dilution of 1:50; separated by size

Images

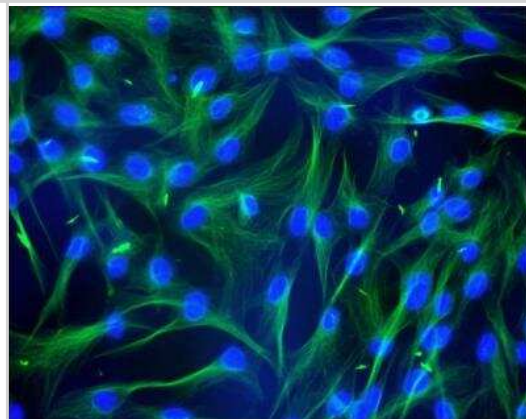
Western Blot: alpha Tubulin 4a Antibody (B-5-1-2) - BSA Free [NB120-11304] - Cell line lysates were separated on SDS-PAGE and probed with Monoclonal Anti-alpha-Tubulin Clone: B-5-1-2. The antibody was developed using Goat Anti-Mouse IgG-Peroxidase and a chemiluminescent substrate. Lanes: 1.) HeLa, 2.) JURKAT, 3.) COS7, 4.) NIH-3T3, 5.) PC-12, 6.) RAT2, 7.) CHO, 8.) MDBK, 9.) MDCK



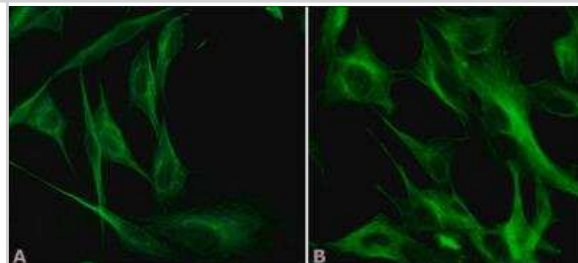
Immunocytochemistry/Immunofluorescence: alpha Tubulin 4a Antibody (B-5-1-2) [NB120-11304] - Staining of HEK293T cells transfected with a recombinant protein HA tagged, detected with Anti-HA Mouse primary antibody and Anti-Mouse Alexa543 secondary antibody. Microtubules detected with Anti-alpha-tubulin Mouse primary antibody and Anti-Mouse Alexa488 secondary antibody.



Immunocytochemistry/Immunofluorescence: alpha Tubulin 4a Antibody (B-5-1-2) [NB120-11304] - CFB cells were fixed and permeabilized with methanol followed by acetone. Fixed cells were stained with Monoclonal Anti-alpha-Tubulin antibody produced in mouse clone No. B-5-1-2. The antibody was developed using Anti-Mouse IgG (Fab specific)-FITC antibody produced in goat. Cells were counterstained with DAPI (blue) to stain nuclei.



alpha Tubulin 4a Antibody (B-5-1-2) - BSA Free [NB120-11304] - Chicken fibroblasts cells were fixed and permeabilized with methanol followed by acetone. Fixed cells were stained with 1 ug/mL Anti-alpha-Tubulin antibody, Mouse monoclonal, Clone: DM1A (A). The antibody was developed using 1:40 Goat Anti-Mouse IgG (Fab specific)-FITC antibody and 1 ug/mL Monoclonal Anti-alpha-Tubulin antibody produced in Mouse, Clone: B-5-1-2 (B). The antibody was developed using 1:40 Goat Anti-Mouse IgG (Fab specific)-FITC antibody Results: Two Anti-alpha-Tubulin antibodies, T6199 (A) and T6074 (B) target different regions of alpha-Tubulin show similar staining profiles between the two antibodies, demonstrating Independent Antibody Verification.



Publications

Jie Yang, Joel Cassel, Brian C. Boyle, Daniel Oppong, Young-Hoon Ahn, Brian P. Weiser, Michael Massiah A homogeneous time-resolved fluorescence screen to identify SIRT2 deacetylase and defatty-acylase inhibitors PLOS ONE 2024-06-24 [PMID: 38913635]

Zaki MS, Bhat G, Sultan T et al. PYCR2 mutations cause a lethal syndrome of microcephaly and failure to thrive. Ann. Neurol. 2016-04-30 [PMID: 27130255] (WB, Human)

Ochaba J, Monteys AM, O'Rourke JG et al. PIAS1 Regulates Mutant Huntingtin Accumulation and Huntington's Disease-Associated Phenotypes In Vivo. Neuron. 2016-05-04 [PMID: 27146268] (WB, Mouse)

Nicholas C. Mouse Polyomavirus T Antigens: Directors of Cell Cycle Signaling. Thesis. 2015-01-01 (WB, Mouse)

Details:

alpha Tubulin 4a antibody clone B-5-1-2 was used for WB analysis of lysates from C57 MEFs that were infected or not with MPyVs RA, NG59, and 808A (withan UI mock-infected control) for 1.5 hours. Tubulin immunoblots were used for normalization purpose for blots of NBS1, MRE11, RAD50, LTag / Large Tumor Antigen and LTA_g (Figure 7).

Merritt EK, Stec MJ, Thalacker-Mercer A et al. Heightened muscle inflammation susceptibility may impair regenerative capacity in aging humans. J Appl Physiol (1985) 2013-09-01 [PMID: 23681911] (Human)





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Products Related to NB120-11304

NBL1-17428	Tubulin alpha-1B Overexpression Lysate
HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-97005-0.5mg	Mouse IgG1 Isotype Control (MG1)

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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