

Product Datasheet

alpha Tubulin Antibody (TU-01) - BSA Free NB500-333

Unit Size: 0.1 mg

Store at 4C. Do not freeze.

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NB500-333

alpha Tubulin Antibody (TU-01) - BSA Free

Product Information	
Unit Size	0.1 mg
Concentration	1.0 mg/ml
Storage	Store at 4C. Do not freeze.
Clonality	Monoclonal
Clone	TU-01
Preservative	15mM Sodium Azide
Isotype	IgG1
Purity	Protein A purified
Buffer	Phosphate buffered saline (PBS), pH 7.4
Target Molecular Weight	50 kDa

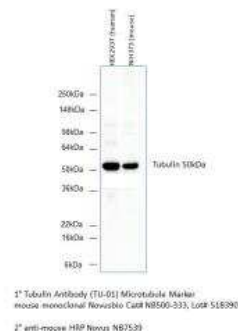
Product Description	
Description	Novus Biologicals Mouse alpha Tubulin Antibody (TU-01) - BSA Free (NB500-333) is a monoclonal antibody validated for use in IHC, WB, Flow, ICC/IF and IP. Anti-alpha Tubulin Antibody: Cited in 1 publication. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Mouse
Gene ID	7846
Gene Symbol	TUBA1A
Species	Human, Mouse, Porcine, A. thaliana, Eukaryote, Invertebrate, Plant, Turkey, Yeast
Reactivity Notes	Plant reactivity reported in scientific literature (PMID: 26594217).
Marker	Microtubule Marker
Specificity/Sensitivity	This alpha Tubulin Antibody (TU-01) recognizes the defined epitope (aa 65-97) on N-terminal structural domain of alpha tubulin.
Immunogen	This alpha Tubulin Antibody (TU-01) was developed against a fraction of tubulin purified from pig brain by two cycles of polymerization-depolymerization.

Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Flow (Intracellular), Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunoprecipitation
Recommended Dilutions	Western Blot 1-2 ug/ml, Immunohistochemistry 1:10-1:500, Immunocytochemistry/ Immunofluorescence 1:10-1:500, Immunoprecipitation 1:10-1:500, Immunohistochemistry-Paraffin 5 ug/ml, Flow (Intracellular) 1-4 ug/ml
Application Notes	Western blotting: Recommended dilution in reducing conditions.

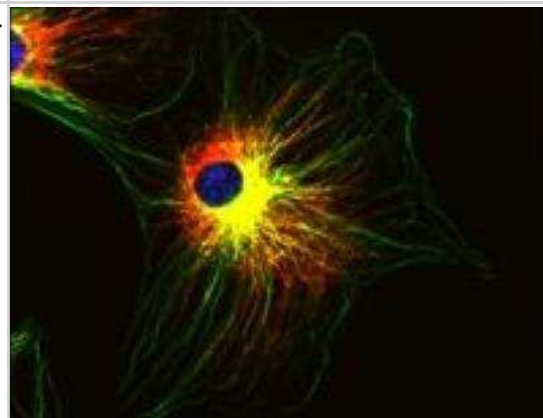


Images

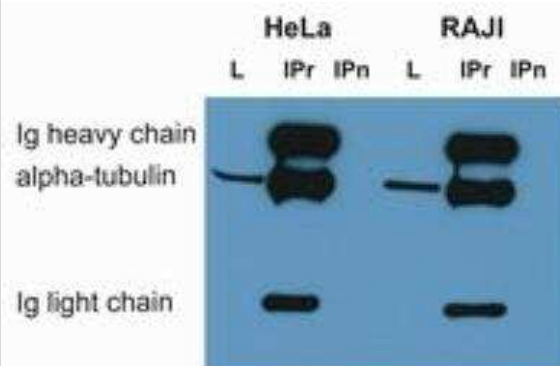
Western Blot: alpha Tubulin Antibody (TU-01) [NB500-333] - Analysis of Tubulin in HEK293T and NIH/3T3 cells using Tubulin antibody; alpha tubulin molecular weight: 50 kDa. Image from verified customer review.



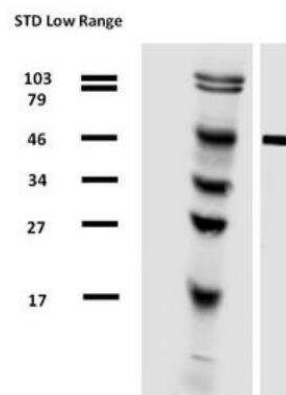
Immunocytochemistry/Immunofluorescence: alpha Tubulin Antibody (TU-01) [NB500-333] - Staining of 3T3 mouse embryonal fibroblast cell line using anti-alpha-tubulin (TU-01; green) and anti-Vimentin (VI-01; red). Nucleus is stained with DAPI (blue).



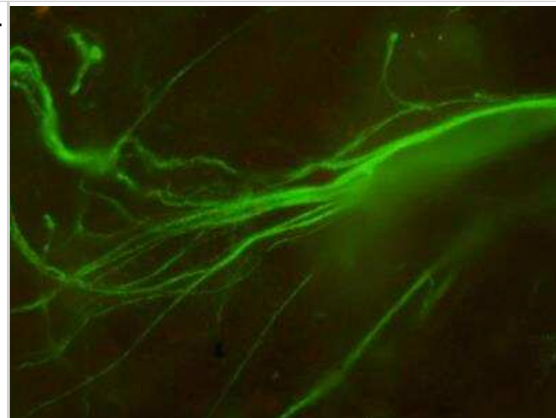
Immunoprecipitation: alpha Tubulin Antibody (TU-01) [NB500-333] - alpha Tubulin from HeLa and RAJI cell lysate by antibody TU-16 and its detection by antibody TU-01. IgM heavy chain (76-92 kDa) and IgM light chain (25-30 kDa) indicated. Molecular weight of alpha tubulin is around 50 kDa. L = lysate IPr = immunoprecipitate (reducing conditions) IPn = immunoprecipitate (non-reducing conditions)



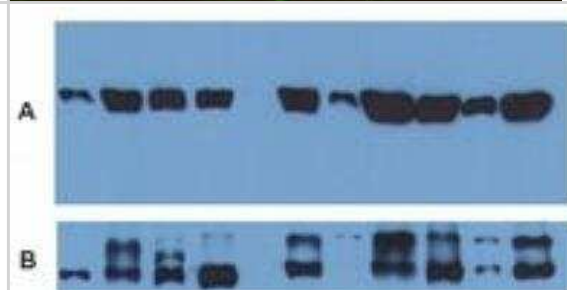
Western Blot: alpha Tubulin Antibody (TU-01) [NB500-333] - Analysis of alpha-tubulin (molecular weight of 50 kDa) in porcine brain lysate by antibody TU-01 biotin.



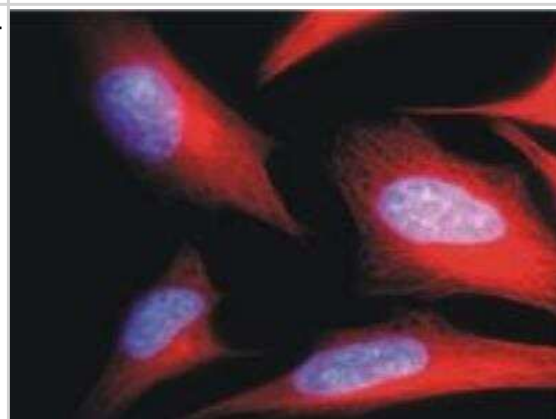
Immunocytochemistry/Immunofluorescence: alpha Tubulin Antibody (TU-01) [NB500-333] - Tubulin filament in HeLa. Image from verified customer review.



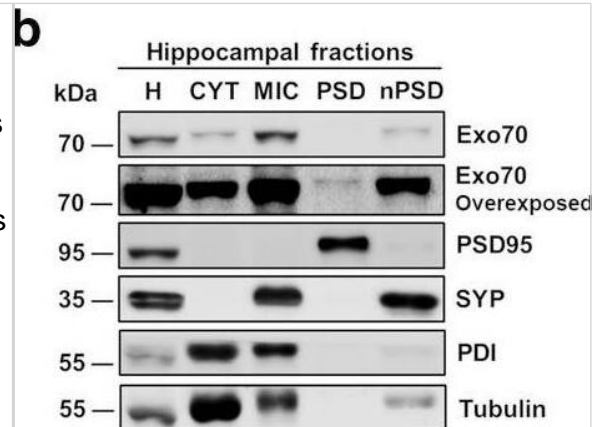
Western Blot: alpha Tubulin Antibody (TU-01) [NB500-333] - Use of anti-alpha-tubulin antibody TU-01 as a loading control (A) in an Western blotting experiment revealing the staining pattern of lysates of various cell lines by a newly developed monoclonal antibody (B). Alpha tubulin molecular weight: 50 kDa.



Immunocytochemistry/Immunofluorescence: alpha Tubulin Antibody (TU-01) [NB500-333] - Staining of HeLa human cervix carcinoma cell line using anti-alpha-tubulin (TU-01; red). Nucleus is stained with DAPI (blue).



Exo70 is redistributed into PSD in the hippocampus of mTBI mice. a Schematic representation of subcellular fractionation proteins. b Example of subcellular fractionation. Hippocampus from two-month-old male mice was fractionated and microsome, PSD, and nonPSD fractions were obtained. 20 ug of protein samples were resolved in a 10% SDS-PAGE and transferred to PVDF membranes. Membranes were incubated with the respective antibodies shown in the figure. Membranes were stripped and tested again with the indicated antibodies. c Proteins distribution were analyzed with densitometric analysis by comparing signal intensity from each fraction with homogenized. Mean values \pm SEM are shown. d Cortex and Hippocampus (f) from Sham and mTBI mice were fractionated and analyzed by western blot using Exo70, PDI, Actin, and Tubulin antibodies. PDI/Actin/Tubulin was used as loading controls. 30 ug of protein samples were used. e, g The graph shows the Exo70 densitometric analysis normalized with loading controls. Values represent means \pm SEM, n = 3 mice per experimental group. Statistical differences were determined by an unpaired t-test comparing Sham and mTBI. *p < 0.05, **p < 0.01 Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/33593425>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Gzyl J, Chmielowska-Bak J, Przymusiński R, Gwozdz EA. Cadmium affects microtubule organization and post-translational modifications of tubulin in seedlings of soybean (*Glycine max* L.). *Front Plant Sci.* 2015-11-23 [PMID: 26594217] (WB, Plant)

Details:

Tubulin antibody (clone TU-01) was used for WB analysis (2D gel electrophoresis) of various alpha-isoforms of tubulin in seedlings of soybean *Glycine max* L (FIGURE 5).



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Products Related to NB500-333

NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB7539	Goat anti-Mouse IgG (H+L) Secondary Antibody [HRP]
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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