

alpha Tubulin Monoclonal Antibody (236-10501)

Product Details	
Size	50 µg
Species Reactivity	Bovine, Human, Mouse
Published Species	Artificial Control, Rat, Non-human primate, Fruit fly, Bovine, Hamster, Zebrafish, Human, Mouse
Host/Isotype	Mouse / IgG1
Class	Monoclonal
Type	Antibody
Clone	236-10501
Conjugate	Unconjugated
Immunogen	Bovine Alpha-Tubulin.
Form	Lyophilized
Purification	purified
Contains	no preservative
Storage Conditions	-20°C
RRID	AB_2534135

Applications	Tested Dilution	Publications
Western Blot (WB)	1:1000-1:5000	40 Publications
Immunohistochemistry (IHC)	-	10 Publications
Immunohistochemistry (Paraffin) (IHC (P))	1:20-1:200	-
Immunohistochemistry (Frozen) (IHC (F))	-	2 Publications
Immunocytochemistry (ICC)	1:100-1:500	50 Publications
Immunofluorescence (IF)	1:100-1:500	24 Publications
Flow Cytometry (Flow)	-	1 Publication
Miscellaneous PubMed (Misc)	-	14 Publications

Product Specific Information

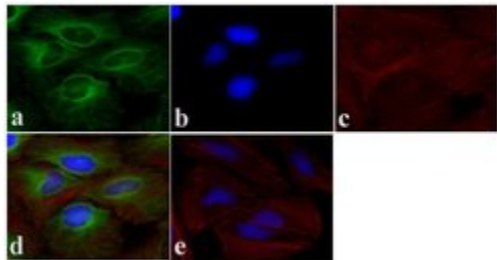
The anti-bovine alpha-tubulin antibody can be used with secondary detection techniques to visualize microtubules in fixed cells and in fixed or frozen tissue sections of various species. In addition, this antibody can be used to detect tubulin by ELISA and immunoblot, for the screening of expression libraries and, since it recognizes amino acids 65-97 of the N-terminal structural domain, as a probe for the N-terminal domain of alpha-tubulin.

We have found that this highly specific antibody can be used at much lower concentrations than anti-tubulin antibodies available from other suppliers. For immunocytochemistry applications, we recommend using an initial concentration of 1 µg/mL or less.

Product Images For alpha Tubulin Monoclonal Antibody (236-10501)

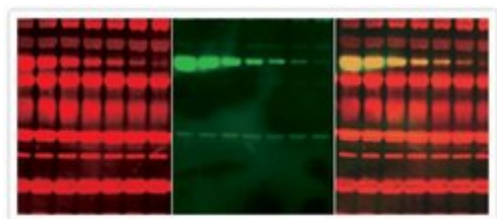
alpha Tubulin Antibody (A11126) in IF

Immunofluorescent analysis of Alpha-Tubulin was done on 70% confluent log phase HeLa cells. The cells were fixed with 4% paraformaldehyde for 15 minutes, permeabilized with 0.25% Triton™ X-100 for 10 minutes, and blocked with 5% BSA for 1 hour at room temperature. The cells were labeled with Alpha-Tubulin Mouse monoclonal Antibody (Product # A11126) at 1 µg/mL in 1% BSA and incubated for 3 hours at room temperature and then labeled with Alexa Fluor 488 Rabbit Anti-Mouse IgG Secondary Antibody (Product # A-11059) at a dilution of 1:400 for 30 minutes at room temperature (Panel a: green). Nuclei (Panel b: blue) were stained with SlowFade® Gold Antifade Mountant DAPI (Product # S36938). F-actin (Panel c: red) was stained with Alexa Fluor 594 Phalloidin (Product # A12381). Panel d is a merged image showing cytoplasmic localization. Panel e shows no primary antibody control. The images were captured at 20X magnification.



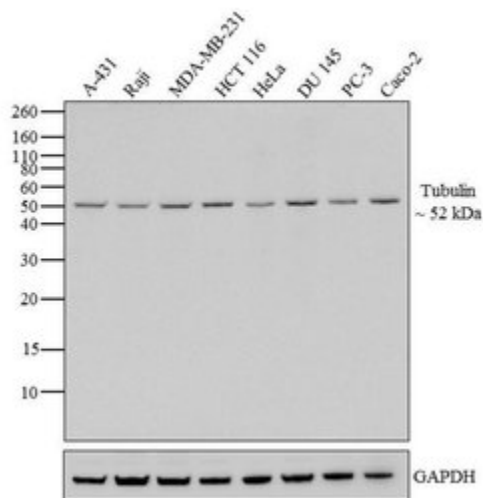
alpha Tubulin Antibody (A11126) in IF

Protein detection with the DyeChrome™ Western Blot Stain Kit #4 (Product # D21884). Samples of protein molecular weight standards (Product # P-6649) containing decreasing amounts of a-tubulin were run on an SDS-polyacrylamide gel and blotted onto a PVDF membrane. After electrophoresis, the blot was stained with BODIPY® TR-X, succinimidyl ester (red signal), to detect total protein. After staining, the blot was incubated with a mouse monoclonal anti-a-tubulin antibody (Product # A11126), followed by an alkaline phosphatase conjugate of goat anti-mouse IgG antibody, which is included in the kit. Finally, the blot was stained with ELF® 39 phosphate (green signal) to detect the alkaline phosphatase enzyme. The signal was visualized under UV epi-illumination. The two fluorescent signals were captured separately, using the DyeChrome™ Red/Green Photographic Filter Set (Product # D24771), and the two resulting digital images were overlaid using Adobe Photoshop software.



alpha Tubulin Antibody (A11126) in WB

Western blot analysis of alpha-Tubulin was performed by loading 20 µg of A431 (lane1), Raji (lane2), MDA-MB-231 (lane3), HCT 116 (lane4), HeLa (lane5), DU 145 (lane6), PC-3 (lane7) and Caco-2 (lane8) cell lysate using Novex®NuPAGE® 12 % Bis-Tris gel (Product # NP0341BOX), XCell SureLock Electrophoresis System (Product # EI0002), Novex® Sharp Pre-Stained Protein Standard (LC5800), and iBlot® Dry Blotting System (IB21001). Proteins were transferred to a nitrocellulose membrane and blocked with 5% skim milk at 4°C overnight. alpha-Tubulin was detected at ~ 52 kDa using alpha-Tubulin Mouse Monoclonal Antibody (Product # A11126) at 1:3000 dilution in 5% skim milk for 3 hour at room temperature on a rocking platform. Goat Anti-Mouse - HRP Secondary Antibody (Product # 62-6520) at 1:4000 dilution was used and chemiluminescent detection was performed using Pierce™ ECL Western Blotting Substrate (Product # 32106).



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Western Blot (40)

Journal of the peripheral nervous system : JPNS

Characterization of the mitofusin 2 R94W mutation in a knock-in mouse model.

"Published figure using alpha Tubulin monoclonal antibody (Product # A11126) in Western Blot"

Authors: Strickland AV,Rebelo AP,Zhang F,Price J,Bolon B,Silva JP,Wen R,Züchner S

Species
Mouse
Not Applicable

Dilution
Not Cited
Not Cited

Year
2014

Annals of the New York Academy of Sciences

Effect of paclitaxel on intracellular localization of c-Myc and P-c-Myc in prostate carcinoma cell lines.

"A11126 was used in western blot to examine the localization and phosphorylation of c-Myc in prostate carcinoma cell lines"

Authors: Supino R,Favini E,Cuccuru G,Zunino F,Scovassi AI

Species
Not Applicable

Dilution
Not Cited

Year
2007

[View more WB references on thermofisher.com](#)

Immunohistochemistry (10)

Planta

Pollen tube growth: coping with mechanical obstacles involves the cytoskeleton.

"A11126 was used in immunohistochemistry to examine the mechano-structural role of the cytoskeleton in the invasive growth of pollen tubes"

Authors: Gossot O,Geitmann A

Species
Not Applicable

Dilution
1:200

Year
2007

Reproductive biomedicine online

Rho-associated protein kinase regulates subcellular localisation of Angiomotin and Hippo-signalling during preimplantation mouse embryo development.

"A11126 was used in immunohistochemistry to demonstrate that Rock regulates Hippo signaling and ensures the correct subcellular localization Amot in outer cells"

Authors: Mihajlovi AI,Bruce AW

Species
Mouse

Dilution
1:200

Year
2016

[View more IHC references on thermofisher.com](#)

More applications with references on thermofisher.com

IHC (F) (2)

ICC (50)

IF (24)

Flow (1)

Misc (14)

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