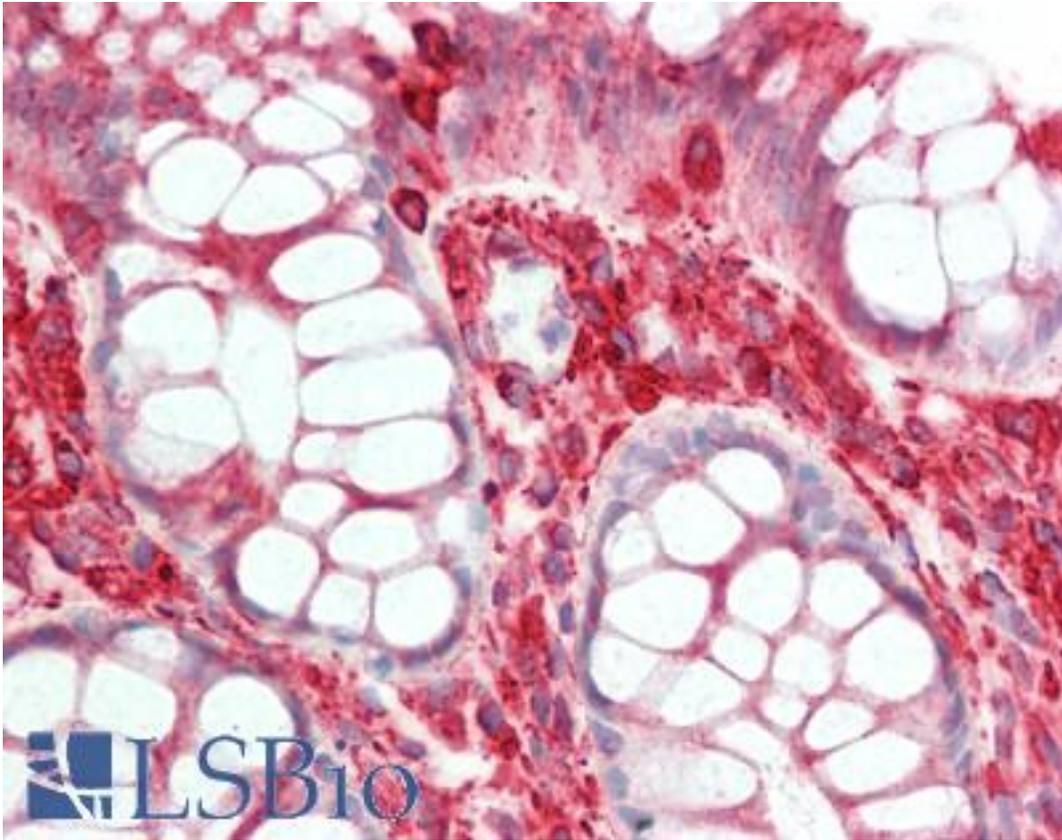


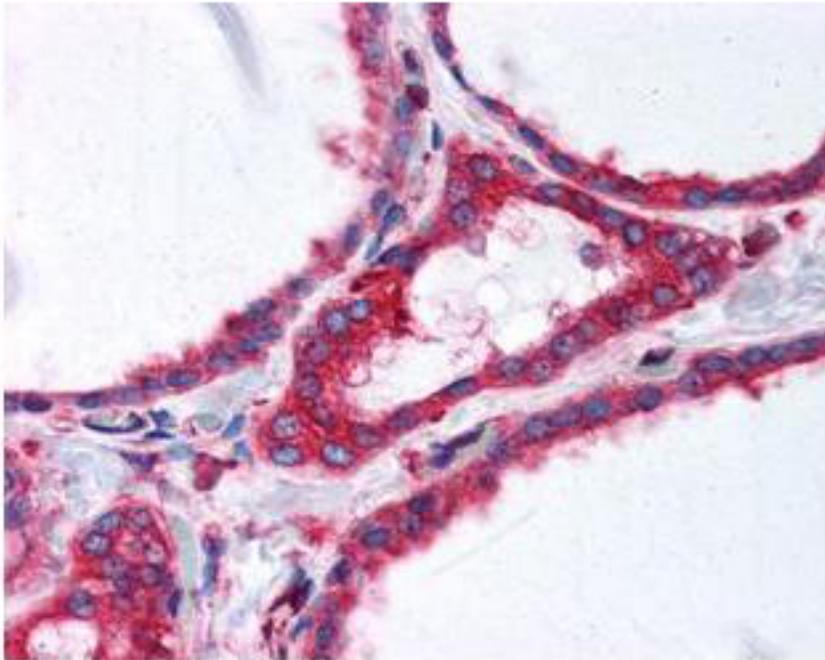
TUBA1B Mouse anti-Human Monoclonal (C-Terminus) (17H11.F10) Antibody - LS-B10591 - LSBio	
CatalogID:	LS-B10591
Validation:	This antibody replaces catalog number LS-C154003. It has been validated for use in the following assays: IHC-P.
Target:	tubulin, alpha 1b (TUBA1B)
Synonyms:	TUBA1B Antibody, Alpha-tubulin ubiquitous Antibody, Alpha tubulin Antibody, K-ALPHA-1 Antibody, Tubulin, alpha 1b Antibody, Tubulin alpha-ubiquitous chain Antibody, Tubulin, alpha, ubiquitous Antibody, Tubulin K-alpha-1 Antibody, Tubulin alpha chain Antibody, Tubulin alpha-1B chain Antibody
Host	TUBA1B antibody was produced in Mouse
Clonality:	Monoclonal
Isotype:	IgG
Clone Name:	17H11.F10
Immunogen Species:	TUBA1B antibody was raised against Human
Antigen Type:	Synthetic peptide
Immunogen:	TUBA1B antibody was raised against anti-Tubulin Loading Control Antibody was produced by repeated immunizations with a synthetic peptide corresponding to residues near the C terminal end of human alpha tubulin protein.
Specificity:	Anti-Tubulin Loading Control Antibody was purified Protein A chromatography. This Loading Control antibody is directed against alpha tubulin. A BLAST analysis was used to suggest antibody reactivity with alpha tubulin from a wide range of organisms, including avian, mammalian aquatic, parasitic and alga sources based on 100% homology for the immunogen sequence. Cross reactivity will occur with all isoforms of alpha tubulin. Such broad reactivity makes this antibody useful as an excellent loading control.
Epitope:	C-Terminus
Reactivity:	Human, Mouse, Rat, Bovine, Chicken
Purification:	Protein A purified
Presentation:	0.02 M potassium phosphate, 0.15 M sodium chloride, pH 7.2, 0.01% sodium azide, sterile filtered
Recommended Storage:	Short term 4°C, long term aliquot and store at -20°C, avoid freeze thaw cycles.
Usage Summary:	Anti-Tubulin Antibody has been tested for use in ELISA, immunohistochemistry, immunofluorescence microscopy and western blot. Specific conditions for reactivity should be optimized by the end user. Expect a band at ~50 kD in size corresponding to alpha tubulin by western blotting in most cell lysates or extracts.
Uses:	IHC - Paraffin (5 µg/ml), Immunofluorescence (0.1 µg/ml), Western blot (1:1000), ELISA (1:300000) (Optimal dilution to be determined by the researcher)
Size:	50 µg

Immunohistochemistry Image:



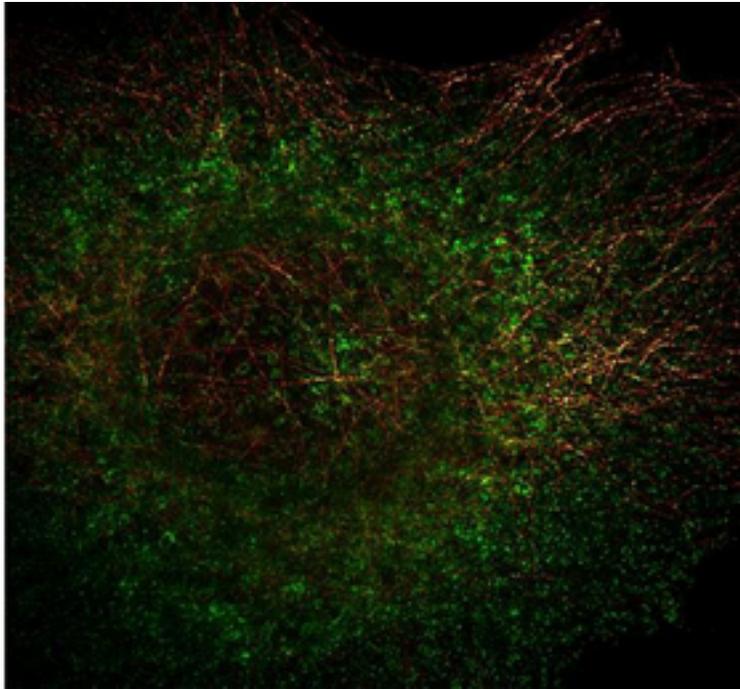
Human Colon: Formalin-Fixed, Paraffin-Embedded (FFPE)

Immunohistochemistry Image:



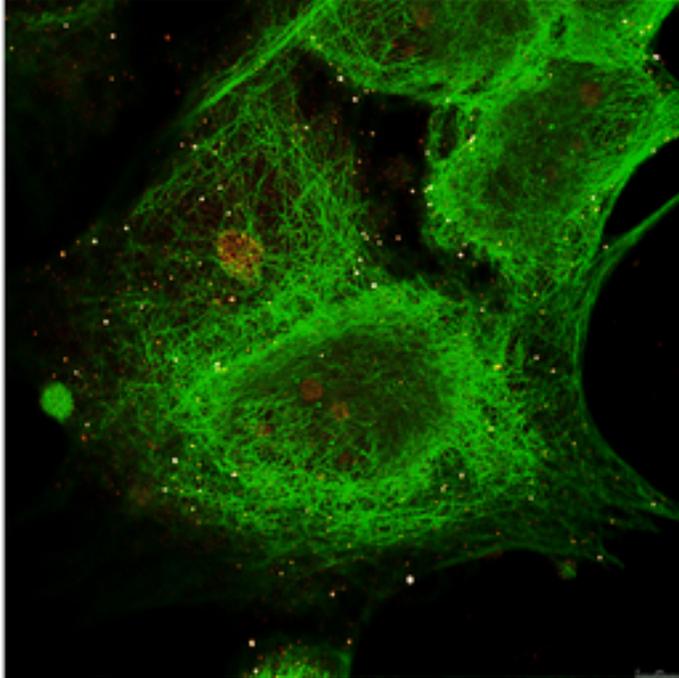
Anti-alpha-Tubulin Monoclonal Antibody - Immunohistochemistry. anti-a-tubulin monoclonal antibody was used at a 2.5 ug/mL to detect tubulin in thyroid follicular epithelium (40X) showing moderate to strong cytoplasmic staining (image). Moderate to strong cytoplasmic staining was also observed within subsets of neurons and glia, and epithelial cells including adrenal, breast, colon, pancreas, kidney, prostate, placenta, skin, testis, uterus, thyroid, and within lymphoid organs. The image shows the localization of the antibody as the precipitated red signal, with a hematoxylin purple nuclear counterstain. tissue was formalin-fixed and paraffin embedded.

Immunofluorescence Image:



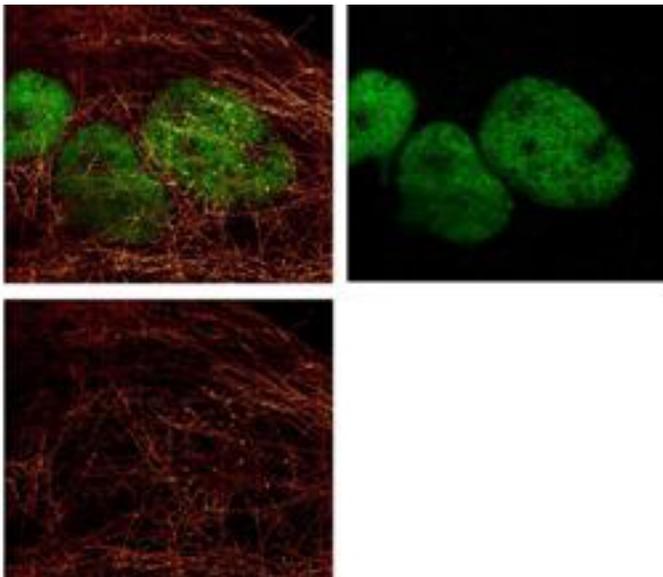
Anti-tubulin Monoclonal antibody-Immunofluorescence. mouse monoclonal anti-tubulin antibody was used with ATTO 425 Goat anti-mouse (shown in red) to detect tubulin by immunofluorescence. Dylight 488 Goat anti-Rabbit (shown in green) was used in the same experiment to detect rabbit anti-Clathrin polyclonal antibody Data was collected on a STED-CW TCS-SP5 Confocal system (Leica Microsystems) equipped with a DFC 350FX Camera allowing sequential acquisition in wide-field, confocal and STED CW imaging modes and provided courtesy of: Myriam Gastard, PhD, personal communication, Leica Microsystems, Inc. USA.

Immunofluorescence Image:



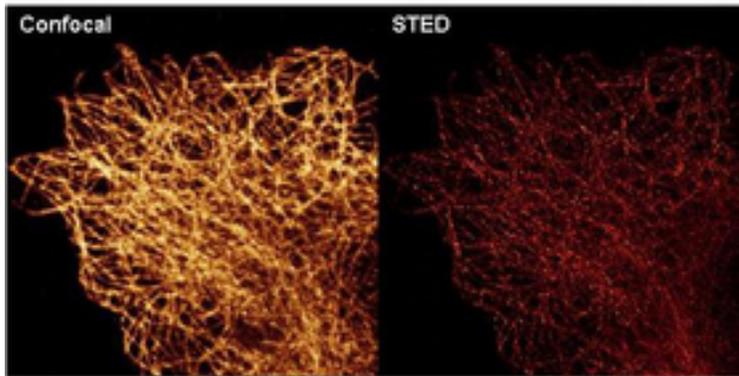
Anti-alpha-Tubulin (MOUSE) Monoclonal Antibody - Immunofluorescence. Anti-alpha-Tubulin (MOUSE) Monoclonal Antibody Immunofluorescence image showing MCF-7 cell staining of Anti-alpha-Tubulin (MOUSE) Monoclonal Antibody in green and staining of Anti-Gli-3 (RABBIT) Antibody in red.

Immunofluorescence Image:



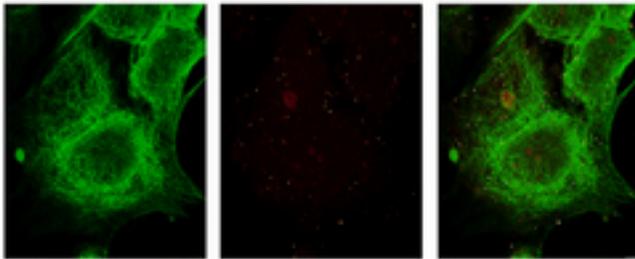
Immunofluorescence Microscopy - alpha-Tubulin Monoclonal Antibody -. a-tubulin monoclonal antibody detects tubulin (colored RED) in STED immunofluorescence microscopy. Methanol fixed A431 cells were blocked with normal goat serum. The cells were then probed with 0.4 ug/mL final concentration of anti-a-tubulin and detected with 0.2 ug/mL ATTO 425 conjugated anti-MOUSE IgG [GOAT] (secondary antibody. Also shown in this 2-color STED image is Anti-HDAC-1 [RABBIT] (LS-B34) detected with DyLight488 conjugated Anti-RABBIT IgG [GOAT] secondary antibody (colored GREEN). Image courtesy of Myriam Gastard, Leica Microsystems, USA.

Immunofluorescence Image:



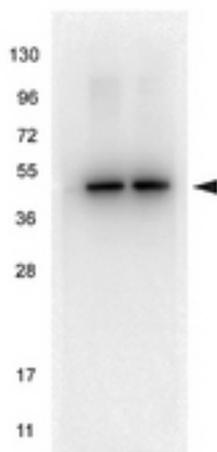
Anti-alpha-Tubulin Monoclonal Antibody - Immunofluorescence Microscopy. anti-a-tubulin monoclonal antibody was used at a 0.1 ug/mL to detect tubulin in 4% paraformaldehyde fixed A459 cells. Staining is shown using conventional confocal microscopy (left panel) and by high resolution TCS STED nanoscopy (right panel). DyLight488 conjugated anti-mouse IgG secondary antibody (p/n was used for detection at 1 ug/mL. Personal Communication, Myriam. Gastard, Leica Microsystems, Exton PA.

Immunofluorescence Image:



Anti-alpha-Tubulin (MOUSE) Monoclonal Antibody - Immunofluorescence. Anti-alpha-Tubulin (MOUSE) Monoclonal Antibody Immunofluorescence image one showing MCF-7 cell staining of Anti-alpha-Tubulin (MOUSE) Monoclonal Antibody in green. Immunofluorescence image two showing MCF-7 cell staining of Anti-Gli-3 (RABBIT) Antibody in red. Immunofluorescence image three showing MCF-7 cell superimposed staining of Anti-alpha-Tubulin (MOUSE) Monoclonal Antibody in green and staining of Anti-Gli-3 (RABBIT) antibody in red.

Western Blot Image:



Anti-alpha-Tubulin Monoclonal Antibody - Western Blot. HeLa whole cell lysate (left lane) and HEK293 whole cell lysate (right lane) were loaded with 10 ug of lysate each. The blot was blocked with Blocking Buffer (MB-070) for 30 min at RT, then washed and incubated with anti-Tubulin monoclonal antibody diluted in Blocking Buffer (p/n MB-070) at 1:1000 for 1 h at RT. After washing, blot was incubated with a 1:40000 dilution of HRP Rb a-Ms IgG (p/n LS-C60772) secondary antibody in Blocking Buffer (p/n MB-070) for 30 minutes at RT. Data was collected using Bio-Rad VersaDoc 4000 MP.

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Created on 9/23/2014

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