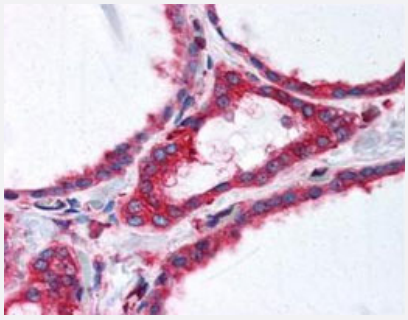
TUBA1B monoclonal antibody, clone 17H11.F10

Catalog # MAB8159 Size 100 ug

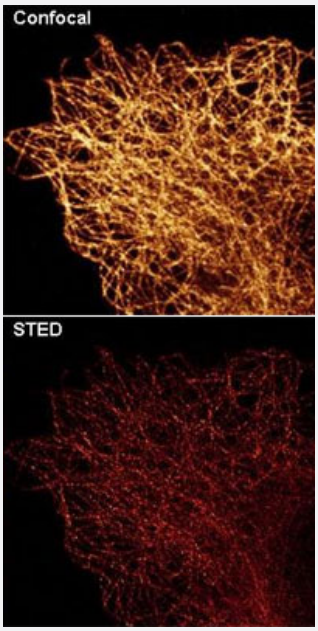
Applications

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)



Immunohistochemical staining of TUBA1B monoclonal antibody, clone 17H11.F10 (Cat # MAB8159) was used at a 2.5 ug/mL to detect TUBA1B in human 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.
Personal Communication, Vasiliki Demas, LifeSpanBiosciences, Seattle, WA.

Immunofluorescence



Immunofluorescence staining of TUBA1B monoclonal antibody, clone 17H11.F10 (Cat # MAB8159) was used at a 0.1 ug/mL to detect TUBA1B in 4% paraformaldehyde fixed A-549 cells. Staining is shown using conventional confocal microscopy (upper panel) and by high resolution TCS STED nanoscopy (bottom panel). DyLight488™ conjugated anti-mouse IgG secondary antibody was used for detection at 1 ug/mL .
Personal Communication, Myriam. Gastard, Leica Microsystems, Exton PA.

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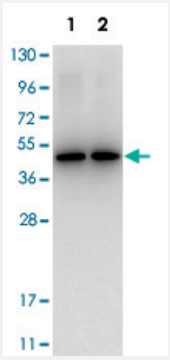

Western Blot (Cell lysate)

Western Blotting from HeLa whole cell lysate (Lane 1) and HEK293 whole cell lysate (Lane 2) were loaded with 10 ug of lysate each. TUBA1B monoclonal antibody, clone 17H11.F10 (Cat # MAB8159) at 1 : 1,000 for 1 h at RT. Data was collected using Bio-Rad VersaDoc® 4000 MP.

Specification

Product Description	Mouse monoclonal antibody raised against synthetic peptide of TUBA1B.
Immunogen	A synthetic peptide corresponding to C-terminus end of human TUBA1B.
Host	Mouse
Reactivity	Bovine, Chicken, Human, Mouse, Rat
Specificity	Cross reactivity will occur with all isoforms of alpha tubulin.
Form	Liquid
Recommend Usage	ELISA (1:300000) Western Blot (1:1000) Immunohistochemistry (2.5 ug/mL) Immunofluorescence (0.1 ug/mL) The optimal working dilution should be determined by the end user.
Storage Buffer	In 20 mM potassium phosphate buffer, 150 mM NaCl, pH 7.2 (0.01% sodium azide)
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

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- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

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  Personal Communication, Vasiliki Demas, LifeSpanBiosciences, Seattle, WA.

- Immunofluorescence

  Immunofluorescence staining of TUBA1B monoclonal antibody, clone 17H11.F10 (Cat # MAB8159) was used at a 0.1 ug/mL to detect TUBA1B in 4% paraformaldehyde fixed A-549 cells. Staining is shown using conventional confocal microscopy (upper panel) and by high resolution TCS STED nanoscopy (bottom panel). DyLight488™ conjugated anti-mouse IgG secondary antibody was used for detection at 1 ug/mL .
  Personal Communication, Myriam. Gastard, Leica Microsystems, Exton PA.

- Enzyme-linked Immunoabsorbent Assay

- Western Blot (Cell lysate)

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Gene Info — TUBA1B

Entrez GeneID	10376
Gene Name	TUBA1B
Gene Alias	K-ALPHA-1
Gene Description	tubulin, alpha 1b
Omim ID	602530
Gene Ontology	Hyperlink
Gene Summary	O
Other Designations	alpha tubulin|tubulin, alpha, ubiquitous

Publication Reference

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- Structural features and restricted expression of a human alpha-tubulin gene.

  Hall JL, Cowan NJ.

  Nucleic Acids Research 1985 Jan; 13(1):207.

- Expression of human alpha-tubulin genes: interspecies conservation of 3' untranslated regions.

  Cowan NJ, Dobner PR, Fuchs EV, Cleveland DW.

  Molecular and Cellular Biology 1993 Oct; 3(10):1738.

Pathway

- Gap junction
- Pathogenic Escherichia coli infection - EHEC

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