

Alpha-Tubulin

Cat#: ER130905

Loading Control

Product Type: Rabbit polyclonal IgG, primary antibodies
Species reactivity: Human, mouse, rat, Zebra fish
Applications: WB, IHC, ICC, FC, IF
Molecular Wt.: 50kDa

Description: The cytoskeleton consists of three types of cytosolic fibers: microtubules, microfilaments (actin filaments), and intermediate filaments. Globular tubulin subunits comprise the microtubule building block, with α/β -tubulin heterodimers forming the tubulin subunit common to all eukaryotic cells. Acetylation of alpha chains at Lys-40 stabilizes microtubules and affects affinity and processivity of microtubule motors. This modification has a role in multiple cellular functions, ranging from cell motility, cell cycle progression or cell differentiation to intracellular trafficking and signaling.

Specificity/Source: This antibody is produced by immunizing rabbits with a synthetic peptide (KLH-coupled) corresponding to C-terminal of Alpha-tubulin.

Positive control: NIH/3T3, HeLa, HepG2, PC12, human stomach tissue, human tonsil tissue, mouse pancreas tissue

Subcellular location: Cytoplasm > cytoskeleton

Recommended Dilutions:

WB: 1:5,000-1:10,000 ICC: 1:200-1:500

IHC: 1:200-1:500 IF: 1:200-1:500

FC: 1:50-1:100

Storage Buffer: 1*TBS (pH7.4), 1%BSA, 40%Glycerol.
Preservative: 0.05% Sodium Azide.

Storage Instruction:

Store at +4°C after thawing. Aliquot store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

Purity:

Peptide affinity purified

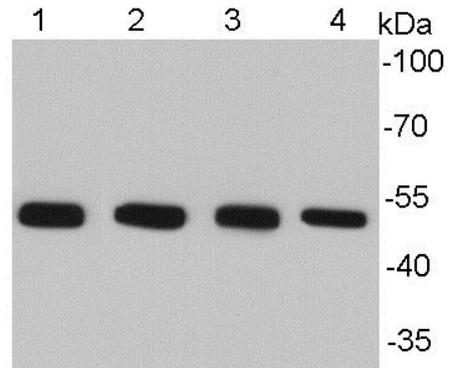


Fig1: Western blot analysis of Alpha-tubulin on different cell lysates using anti-Alpha-tubulin antibody at 1/10000 dilution.

Positive control:

Lane 1: NIH/3T3 Lane2: HepG2

Lane3: PC12 Lane 4: HeLa

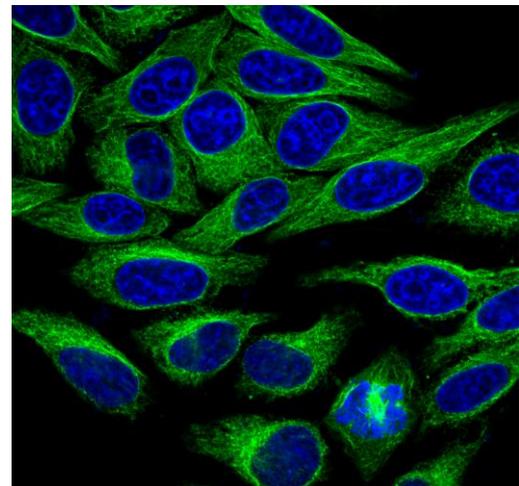


Fig2: ICC staining of Alpha-tubulin in HepG2 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.

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Applications: WB=Western IP=Immunoprecipitation IHC=Immunohistochemistry IF=Immunofluorescence FC=Flow cytometry
Species Cross-Reactivity: H=human M=mouse R=rat Hm=hamster Mk=monkey Mi=mink C=chicken Dm=D.melanogaster X=Xenopus Z=zebrafish
B=bovine Dg=dog Pg=pig Sc=S.

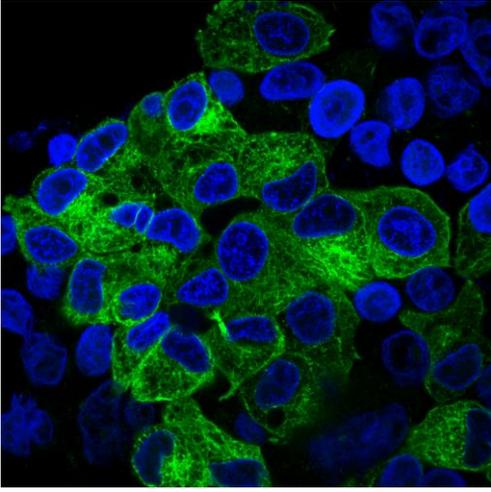


Fig3: ICC staining of Alpha-tubulin in HeLa cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.

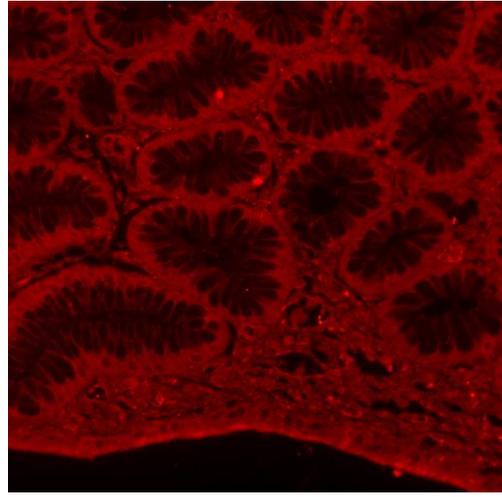


Fig4: IHC-P image of Alpha-tubulin staining with Alpha-tubulin antibody on tissue sections from human stomach. The secondary used was an Alexa-Fluor 555 conjugated goat anti-rabbit polyclonal.

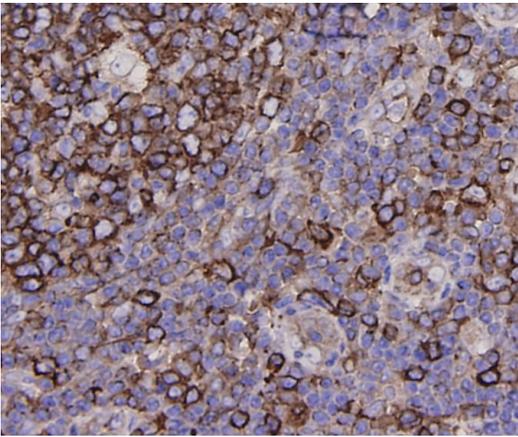


Fig5: Immunohistochemical analysis of paraffin-embedded human tonsil tissue using anti-Alpha-tubulin antibody. Counter stained with hematoxylin.

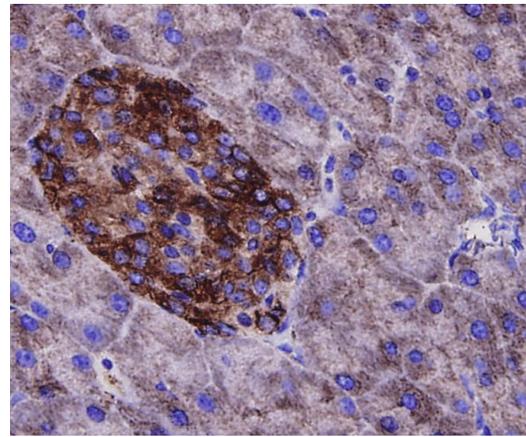


Fig6: Immunohistochemical analysis of paraffin-embedded mouse pancreas tissue using anti-Alpha-tubulin antibody. Counter stained with hematoxylin.

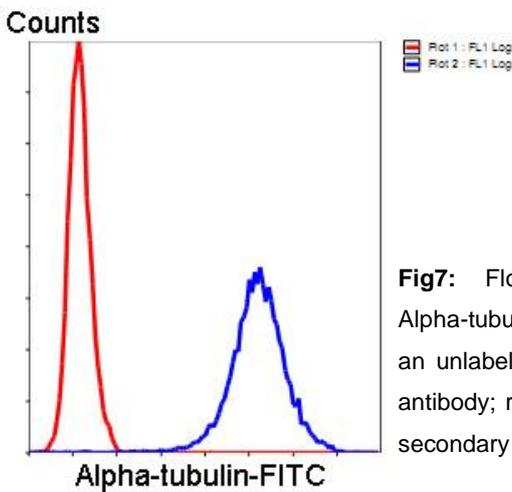


Fig7: Flow cytometric analysis of HeLa cells with Alpha-tubulin antibody at 1/100 dilution (blue) compared with an unlabelled control (cells without incubation with primary antibody; red). Goat anti rabbit IgG (FITC) was used as the secondary antibody.

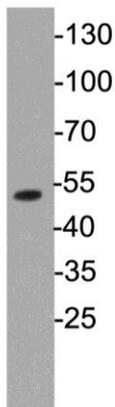


Fig8: Western blot analysis of Alpha-tubulin on zebra fish tissue lysates using anti-Alpha-tubulin antibody

1. "C-terminal fragments of alpha- and beta-tubulin form amyloid fibrils in vitro and associate with amyloid deposits of familial cerebral amyloid angiopathy, British type." Baumann M.H., Wisniewski T., Levy E., Plant G.T., Ghiso J. *Biochem. Biophys. Res. Commun.* 219:238-242(1996)
2. "Tubulin polyglutamylase enzymes are members of the TTL domain protein family." Janke C., Rogowski K., Wloga D., Regnard C., Kajava A.V., Strub J.-M., Temurak N., van Dijk J., Boucher D., van Dorselaer A., Suryavanshi S., Gaertig J., Edde B. *Science* 308:1758-1762(2005)
3. "Evolutionary divergence of enzymatic mechanisms for posttranslational polyglycylation." Rogowski K., Juge F., van Dijk J., Wloga D., Strub J.-M., Levilliers N., Thomas D., Bre M.-H., Van Dorselaer A., Gaertig J., Janke C. *Cell* 137:1076-1087(2009)

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