

**Functional alpha-Tubulin Antibody, mAb (recombinant)**  
Catalog # ADP0042**Specification****Functional alpha-Tubulin Antibody, mAb (recombinant) - Product Information**

Application	ICC
Reactivity	Human, Mouse, Bovine
Host	Purified From HEK 293 Cell culture Supernatant.
Clonality	Monoclonal
Isotype	Human IgG2 $\lambda$
Gene Source	mouse
Application Note	ICC(1:1'000),WB(1:1'000)
Description	<p>anti-<math>\alpha</math>-Tubulin, monoclonal antibody (recombinant) (F2C) is composed of human variable regions (VH and VL) (<math>\lambda</math>-chain) of immunoglobulin fused to the human IgG2 Fc domain.</p> <p>anti-<math>\alpha</math>-Tubulin, monoclonal antibody (recombinant) (F2C) is an antibody developed by antibody phage display technology using a human naive antibody gene library. These libraries consist of scFv (single chain fragment variable) composed of VH (variable domain of the human immunoglobulin heavy chain) and VL (variable domain of the human immunoglobulin light chain) connected by a polypeptide linker. The antibody fragments are displayed on the surface of filamentous bacteriophage (M13). This scFv was selected by affinity selection on antigen in a process termed panning. Multiple rounds of panning are performed to enrich for antigen-specific scFv-phage. Monoclonal antibodies are subsequently identified by screening after each round of selection. The selected monoclonal scFv is cloned into an appropriate vector containing a Fc portion of interest and then produced in mammalian cells to generate an IgG like scFv-Fc fusion protein.</p>

**Functional alpha-Tubulin Antibody, mAb (recombinant) - Additional Information****Target/Specificity**

Recognizes mouse, bovine and human  $\alpha$ -tubulin.

**Format**

Liquid. In PBS containing 10% glycerol and 0.02% sodium azide.

**Reconstitution & Storage**

Stable for at least 1 month after receipt when stored at +4°C. Stable for at least 1 year after receipt when stored at -20°C.

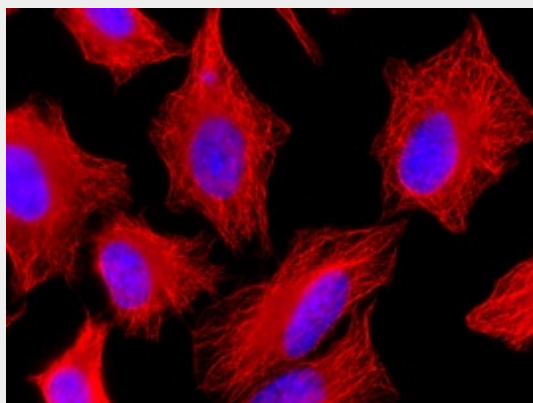
**Precautions**

Functional alpha-Tubulin Antibody, mAb (recombinant) is for research use only and not for use in diagnostic or therapeutic procedures.

**Functional alpha-Tubulin Antibody, mAb (recombinant) - Protein Information****Functional alpha-Tubulin Antibody, mAb (recombinant) - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**Functional alpha-Tubulin Antibody, mAb (recombinant) - Images**

Human alpha-Tubulin is detected by immunocytochemistry using anti-alpha-Tubulin, mAb (rec.) (F2C).

Method: HeLa cells are grown in standard culture conditions, fixed with methanol, and incubated with anti-alpha-Tubulin, mAb (rec.) (F2C) (1 µg/ml in PBS-BSA). After incubation for 30 min at RT and several washes in PBS, cells are treated with a goat anti-human (Cy3) antibody for 30 min at RT, washed and mounted in Moewiol. Nuclei are stained with DAPI.

Picture courtesy of Dr. Moutel, Dr. Franck Perez Lab, Curie Institute, Paris.

**Functional alpha-Tubulin Antibody, mAb (recombinant) - Background**

Tubulin is the major building block of microtubules. This intracellular cylindrical filamentous

structure is present in almost all eukaryotic cells. Microtubules function as structural and mobile elements in mitosis, intracellular transport, flagellar movement, and the cytoskeleton.