α Tubulin (A-6): sc-398103

**BACKGROUND**

Tubulin is a major cytoskeleton component that has five distinct forms, designated α, β, γ, δ and ε. α-Tubulin and β-Tubulin form heterodimers which multimerize to form a microtubule filament. α-Tubulin forms the gamma-sense, which is required for nucleating microtubule filaments at the centrosome. Both α-Tubulin and β-Tubulin are associated with the centrosome. α-Tubulin is a homolog of the Chlamydomonas Tubulin Un13 and is found in association with the centrioles, whereas β-Tubulin localizes to the pericentriolar material. α-Tubulin exhibits a cell-cycle-specific pattern of localization, first associating with only the older of the centrosomes in a newly duplicated pair and later associating with both centrosomes.

**SOURCE**

α-Tubulin (A-6) is a mouse monoclonal antibody specific for an epitope mapping between amino acids 22-49 N-terminus of α-Tubulin of human origin.

**PRODUCT**

Each vial contains 200 μg IgG2k kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

α-Tubulin (A-6) is available conjugated to agarose (sc-398103 AC), 500 μg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-398103 HRP), 200 μg/ml, for WB, IHC (P) and ELISA; to either phycoerythrin (sc-398103 PE), fluorescein (sc-398103 FITC), Alexa Fluor® 488 (sc-398103 AF488), Alexa Fluor® 546 (sc-398103 AF546), Alexa Fluor® 594 (sc-398103 AF594) or Alexa Fluor® 647 (sc-398103 AF647), 200 μg/ml, for WB (RGB), IF, IHC (P) and FCM; and to either Alexa Fluor® 680 (sc-398103 AF680) or Alexa Fluor® 790 (sc-398103 AF790), 200 μg/ml, for Near-Infrared (NIR) WB, IF and FCM. Blocking peptide available for competition studies, sc-398103 P (100 μg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% stabilizer protein).

**APPLICATIONS**

α-Tubulin (A-6) is recommended for detection of α-Tubulin of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1000), immunoprecipitation [1-2 μg per 100-500 μg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

α-Tubulin (A-6) is also recommended for detection of α-Tubulin in additional species, including equine, canine, bovine, porcine and avian. Suitable for use as control antibody for α-Tubulin siRNA (h): sc-29188, α-Tubulin siRNA (m): sc-29189, α-Tubulin shRNA Plasmid (h): sc-29188-SH, α-Tubulin shRNA Plasmid (m): sc-29189-SH, α-Tubulin shRNA (h) Lentiviral Particles: sc-29188-V and α-Tubulin shRNA (m) Lentiviral Particles: sc-29189-V.

Molecular Weight of α-Tubulin: 55 kDa.

**STORAGE**

Store at 4°C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

**DATA**

α-Tubulin (A-6) Western blot analysis of α-Tubulin expression in PC-12 (A), K-562 (B), MCF7 (C), A549 (D), BJAB (E) and HeLa (F) whole cell lysates.

α-Tubulin (A-6) HRP: sc-398103 HRP. Direct western blot analysis of α-Tubulin expression in C2C12 (A), HL-60 (B), Jurkat (C), NIH/3T3 (D), SH-SY5Y (E) and SW-13 (F) whole cell lysates.

**SELECT PRODUCT CITATIONS**


**RESEARCH USE**

For research use only, not for use in diagnostic procedures.

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