α Tubulin (TU-02): sc-8035

**BACKGROUND**

Tubulin is a major cytoskeleton component that has five distinct forms, designated α, β, γ, δ, and ε Tubulin. α and β Tubulins form heterodimers which multimerize to form a microtubule filament. Multiple β Tubulin isoforms (β1, β2, β3, β4, β5, β6 and β8) have been characterized and are expressed in mammalian tissues. β1 and β4 are present throughout the cytosol, β2 is present in the nuclei and nucleoplasm, and β3 is a neuron-specific cytoskeletal protein. γ Tubulin forms the gammasomes, which is required for nucleating microtubule filaments at the centrosome. Both δ Tubulin and ε Tubulin are associated with the centrosome. δ Tubulin is a homolog of the *Chlamydomonas* δ Tubulin Uni3 and is found in association with the centrioles, whereas ε Tubulin localizes to the pericentriolar material.

ε 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 (TU-02) is a mouse monoclonal antibody raised against amino acids 1-451 representing full length α Tubulin of porcine origin.

**PRODUCT**

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

α Tubulin (TU-02) is available conjugated to agarose (sc-8035 AC), 500 µg/0.25 ml agarose in 1 ml, for IP, to HRP (sc-8035 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycocyanin (sc-8035 PE), fluorescein (sc-8035 FITC), Alexa Fluor® 488 (sc-8035 AF488), Alexa Fluor® 546 (sc-8035 AF546), Alexa Fluor® 594 (sc-8035 AF594) or Alexa Fluor® 647 (sc-8035 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-8035 AF680) or Alexa Fluor® 790 (sc-8035 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

In addition, α Tubulin (TU-02) is available conjugated to either TRITC (sc-8035 TRITC, 200 µg/ml) or Alexa Fluor® 405 (sc-8035 AF405, 200 µg/ml), 100 tests in 2 ml, for IF, IHC(P) and FCM.

**APPLICATIONS**

α Tubulin (TU-02) is recommended for detection of α Tubulin of mouse, rat, human and porcine origin by Western Blotting (starting dilution 1:200, 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), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500), flow cytometry (1 µg per 1 x 10⁶ cells) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Molecular Weight of α Tubulin: 55 kDa.

Positive Controls: NIH/3T3 whole cell lysate: sc-2210, C2C12 whole cell lysate: sc-384188 or NAMALWA cell lysate: sc-2234.

**RESEARCH USE**

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

**STORAGE**

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

**DATA**

![Image](image-url)

**SELECT PRODUCT CITATIONS**


**PROTOCOLS**

See our web site at www.scbt.com for detailed protocols and support products.

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