# β Tubulin (dE-13): sc-34038



The Power to Question

## **BACKGROUND**

Tubulin is a major cytoskeleton component that has five distinct forms, designated  $\alpha,\,\beta,\,\gamma,\,\delta$  and  $\epsilon$  tubulin.  $\alpha$  and  $\beta$  Tubulins form heterodimers which multimerize to form a microtubule filament. Multiple  $\beta$  Tubulin isoforms ( $\beta1,\,\beta2,\,\beta3,\,\beta4,\,\beta5,\,\beta6$  and  $\beta8$ ) have been characterized and are expressed in mammalian tissues.  $\beta1$  and  $\beta4$  are present throughout the cytosol,  $\beta2$  is present in the nuclei and nucleoplasm, and  $\beta3$  is a neuron-specific cytoskeletal protein.  $\gamma$  Tubulin forms the gammasome, which is required for nucleating microtubule filaments at the centrosome. Both  $\delta$  Tubulin and  $\epsilon$  Tubulin are associated with the centrosome.  $\delta$  Tubulin is a homolog of the *Chlamydomonas*  $\delta$  Tubulin localizes to the pericentriolar material.  $\epsilon$  Tubulin exhibits a cell cycle-specific pattern of localization; first associ-ating with only the older of the centrosomes in a newly duplicated pair, and later associating with both centrosomes.

## **REFERENCES**

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## **SOURCE**

 $\beta$  Tubulin (dE-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of  $\beta$  Tubulin of *Drosophila melanogaster* origin.

## **STORAGE**

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

#### **PRODUCT**

Each vial contains 200  $\mu g$  lgG in 1.0 ml of PBS with <0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-34038 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## **APPLICATIONS**

 $\beta$  Tubulin (dE-13) is recommended for detection of  $\beta$  Tubulin of *Drosophila melanogaster* origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), 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).

Molecular Weight of β Tubulin: 55 kDa.

#### **RECOMMENDED SECONDARY REAGENTS**

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

## **RESEARCH USE**

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

## **PROTOCOLS**

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



Try  $\beta$  **Tubulin (E-10): sc-365791**, our highly recommended monoclonal aternative to  $\beta$  Tubulin (dE-13).

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