γ1 Tubulin (m): 293T Lysate: sc-124845



The Power to Question

BACKGROUND

Tubulin is a major cytoskeleton component that has five distinct forms, designated $\alpha,\,\beta,\,\gamma,\,\delta$ and ϵ Tubulin. α and β Tubulins form heterodimers which multimerize to form a microtubule filament. Multiple β 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. γ Tubulin forms the gammasome, 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 $\it Chlamydomonas\,\delta$ 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.

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CHROMOSOMAL LOCATION

Genetic locus: Tubg1 (mouse) mapping to 11 D.

RESEARCH USE

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

PRODUCT

 $\gamma 1$ Tubulin (m): 293T Lysate represents a lysate of mouse $\gamma 1$ Tubulin transfected 293T cells and is provided as 100 μg protein in 200 μl SDS-PAGE buffer.

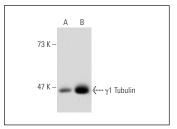
APPLICATIONS

 $\gamma 1$ Tubulin (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive $\gamma 1$ Tubulin antibodies. Recommended use: 10-20 μ l per lane

Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

 γ Tubulin (TU-30): sc-51715 is recommended as a positive control antibody for Western Blot analysis of enhanced mouse γ 1 Tubulin expression in γ 1 Tubulin transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

DATA



 γ Tubulin (TU-30): sc-51715. Western blot analysis of $\gamma 1$ Tubulin expression in non-transfected: sc-117752 (**A**) and mouse $\gamma 1$ Tubulin transfected: sc-124845 (**B**) 293T whole cell lysates.

STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

PROTOCOLS

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

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