

Produktinformation



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Diagnostik & molekulare Diagnostik



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α3C Tubulin (h2): 293T Lysate: sc-173307



The Power to Overtion

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. There are five β Tubulin isoforms ($\beta1,\,\beta2,\,\beta3,\,\beta4A$ and $\beta4B$) that 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 *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.

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CHROMOSOMAL LOCATION

Genetic locus: TUBA3C (human) mapping to 13q12.11.

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.

PRODUCT

 $\alpha 3C$ Tubulin (h2): 293T Lysate represents a lysate of human $\alpha 3C$ Tubulin transfected 293T cells and is provided as 100 μg protein in 200 μl SDS-PAGE buffer.

APPLICATIONS

 α 3C Tubulin (h2): 293T Lysate is suitable as a Western Blotting positive control for human reactive α 3C Tubulin antibodies. Recommended use: 10-20 μ l per lane.

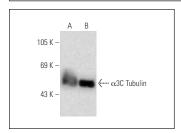
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

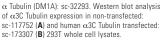
 α Tubulin (DM1A): sc-32293 is recommended as a positive control antibody for Western Blot analysis of enhanced human α 3C Tubulin expression in α 3C Tubulin transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

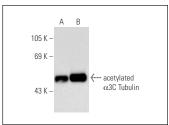
RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-lgG κ BP-HRP: sc-516102 or m-lgG κ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz MarkerTM Molecular Weight Standards: sc-2035, UltraCruz[®] Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.

DATA







acetylated α Tubulin (6-118-1): sc-23950. Western blot analysis of acetylated $\alpha 30$ Tubulin expression in nontransfected: sc-117752 (\pmb{A}) and human $\alpha 3C$ Tubulin transfected: sc-173307 (\pmb{B}) 293T whole cell lysates.

RESEARCH USE

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

PROTOCOLS

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

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