

β1 Tubulin (908G2X): sc-517652

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 (β 1, β 2, β 3, β 4, β 5, β 6 and β 8) have been characterized and are expressed in mammalian tissues. β 1 and β 4 are present throughout the cytosol, β 2 is present in the nuclei and nucleoplasm, and β 3 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.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: TUBB1 (human) mapping to 20q13.32; Tubb1 (mouse) mapping to 2 H4.

SOURCE

β 1 Tubulin (908G2X) is a mouse monoclonal antibody raised against recombinant β 1 Tubulin of human origin.

PRODUCT

Each vial contains 100 μ g IgG₁ in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

β 1 Tubulin (908G2X) is recommended for detection of β 1 Tubulin of mouse, rat and human 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 immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500).

Suitable for use as control antibody for β 1 Tubulin siRNA (h): sc-105000, β 1 Tubulin siRNA (m): sc-108128, β 1 Tubulin shRNA Plasmid (h): sc-105000-SH, β 1 Tubulin shRNA Plasmid (m): sc-108128-SH, β 1 Tubulin shRNA (h) Lentiviral Particles: sc-105000-V and β 1 Tubulin shRNA (m) Lentiviral Particles: sc-108128-V.

Molecular Weight of β 1 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.

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.