

δ Tubulin (C-19): sc-10469

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. There are five β Tubulin isoforms (β -I, β -II, β -III, β -IVa and β -IVb) that are expressed in mammalian tissues. β -I and β -IV are present throughout the cytosol, β -II is present in the nuclei and nucleoplasm, and β -III is a neuron-specific cytoskeletal protein. γ Tubulin forms the gammaosome, 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: TUBD1 (human) mapping to 17q23.1; Tubd1 (mouse) mapping to 11 C.

SOURCE

δ Tubulin (C-19) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of δ Tubulin of human 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 μ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-10469 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

δ Tubulin (C-19) is recommended for detection of δ Tubulin of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)], 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).

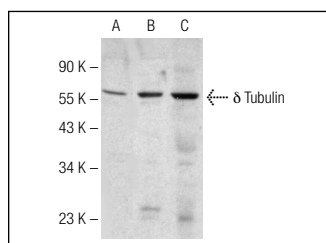
δ Tubulin (C-19) is also recommended for detection of δ Tubulin in additional species, including equine, canine, bovine and avian.

Suitable for use as control antibody for δ Tubulin siRNA (h): sc-35157, δ Tubulin siRNA (m): sc-35158, δ Tubulin shRNA Plasmid (h): sc-35157-SH, δ Tubulin shRNA Plasmid (m): sc-35158-SH, δ Tubulin shRNA (h) Lentiviral Particles: sc-35157-V and δ Tubulin shRNA (m) Lentiviral Particles: sc-35158-V.

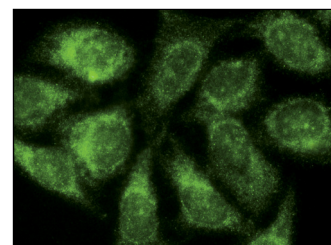
Molecular Weight of δ Tubulin: 51 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200, K-562 whole cell lysate: sc-2203 or NIH/3T3 whole cell lysate: sc-2210.

DATA



δ Tubulin (C-19): sc-10469. Western blot analysis of δ Tubulin expression in NIH/3T3 (A) and KNRK (B) whole cell lysates and rat skeletal muscle tissue extract (C).



δ Tubulin (C-19): sc-10469. Immunofluorescence staining of methanol-fixed HeLa cells showing cytoplasmic localization.

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.