# α1a Tubulin (h7): 293 Lysate: sc-158206



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### **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. There are five  $\beta$  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.  $\gamma$  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  $\it{Chlamydomonas}\,\delta$  Tubulin Uni3 and is found in association with the centrioles, whereas  $\epsilon$  Tubulin localizes to the pericentriolar material.  $\epsilon$  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: TUBA1A (human) mapping to 12q13.12.

## **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**

 $\alpha$ 1a Tubulin (h7): 293 Lysate represents a lysate of human  $\alpha$ 1a Tubulin transfected 293 cells and is provided as 100  $\mu g$  protein in 200  $\mu l$  SDS-PAGE buffer.

## **APPLICATIONS**

 $\alpha$ 1a Tubulin (h7): 293 Lysate is suitable as a Western Blotting positive control for human reactive  $\alpha$ 1a Tubulin antibodies. Recommended use: 10-20  $\mu$ l per lane.

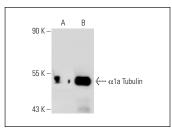
Control 293 Lysate: sc-110760 is available as a Western Blotting negative control lysate derived from non-transfected 293 cells.

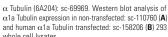
 $\alpha$ 1a Tubulin (6A204): sc-69969 is recommended as a positive control antibody for Western Blot analysis of enhanced human  $\alpha$  Tubulin expression in  $\alpha$ 1a Tubulin transfected 293 cells (starting dilution 1:100, dilution range 1:100-1:1,000).

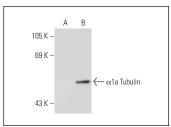
### **RECOMMENDED SUPPORT REAGENTS**

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-lgG $\kappa$  BP-HRP: sc-516102 or m-lgG $\kappa$  BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker<sup>TM</sup> Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.

### DATA







 $\alpha$  Tubulin (YOL1/34): sc-53030. Western blot analysis of  $\alpha$ 1a Tubulin expression in non-transfected: sc-110760 (**A**) and human  $\alpha$ 1a Tubulin transfected: sc-158206 (**B**) 293 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.