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# β2B Tubulin (h2): 293T Lysate: sc-158195

## BACKGROUND

Tubulin exists as five distinct forms, designated  $\alpha$ ,  $\beta$ ,  $\gamma$ ,  $\delta$  and  $\epsilon$ , all of which function as critical components of the cytoskeleton, specifically forming heterodimers which multimerize to produce microtubule filaments. There are five  $\beta$  Tubulin isoforms ( $\beta$ -I,  $\beta$ -II,  $\beta$ -III,  $\beta$ -IVa and  $\beta$ -IVb) that are expressed in mammalian tissues.  $\beta$ -I and  $\beta$ -IV are present throughout the cytosol, while  $\beta$ -II is present in the nuclei and nucleoplasm and  $\beta$ -III is a neuron-specific cytoskeletal protein.  $\beta$ 2B Tubulin, also known as TUBB2B, is a 445 amino acid protein that exists as a heterodimer of  $\alpha$  and  $\beta$  chains and plays an important role in the formation and maintenance of microtubules. Over expression of  $\beta$ 2B Tubulin is associated with nonsmall cell lung carcinoma, suggesting a role for  $\beta$ 2B Tubulin in carcinogenesis.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: TUBB2B (human) mapping to 6p25.2.

## RESEARCH USE

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

## PRODUCT

$\beta$ 2B Tubulin (h2): 293T Lysate represents a lysate of human  $\beta$ 2B Tubulin transfected 293T cells and is provided as 100  $\mu$ g protein in 200  $\mu$ l SDS-PAGE buffer.

## APPLICATIONS

$\beta$ 2B Tubulin (h2): 293T Lysate is suitable as a Western Blotting positive control for human reactive  $\beta$ 2B Tubulin antibodies. Recommended use: 10-20  $\mu$ l per lane.

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

## STORAGE

Store at  $-20^{\circ}$  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](http://www.scbt.com) for detailed protocols and support products.