

β2A Tubulin (2-RY22): sc-134229

BACKGROUND

Tubulin exists as five distinct forms, designated α , β , γ , δ and ϵ , all of which function as critical components of the cytoskeleton, specifically forming heterodimers which multimerize to produce microtubule filaments. Multiple β Tubulin isoforms ($\beta 1$, $\beta 2$, $\beta 3$, $\beta 4$, $\beta 5$, $\beta 6$ and $\beta 8$) have been characterized and are expressed in mammalian tissues. $\beta 1$ and $\beta 4$ are present throughout the cytosol, $\beta 2$ is present in the nuclei and nucleoplasm, and $\beta 3$ 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 α and β chains and plays an important role in the formation and maintenance of microtubules.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: TUBB2A (human) mapping to 6p25.2; Tubb2a (mouse) mapping to 13 A3.3.

SOURCE

$\beta 2A$ Tubulin (2-RY22) is a mouse monoclonal antibody raised against recombinant $\beta 2A$ Tubulin protein of human origin.

PRODUCT

Each vial contains 100 μ g IgG_{2a} kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

APPLICATIONS

$\beta 2A$ Tubulin (2-RY22) is recommended for detection of $\beta 2A$ 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)] and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for $\beta 2A$ Tubulin siRNA (m): sc-108881, $\beta 2A$ Tubulin shRNA Plasmid (m): sc-108881-SH and $\beta 2A$ Tubulin shRNA (m) Lentiviral Particles: sc-108881-V.

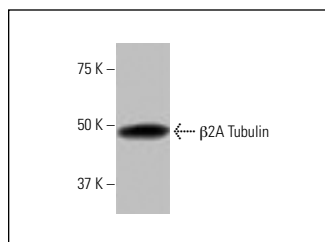
Molecular Weight of $\beta 2A$ Tubulin: 50 kDa.

Positive Controls: Jurkat whole cell lysate: sc-2204.

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgG κ BP-HRP: sc-516102 or m-IgG κ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml).

DATA



$\beta 2A$ Tubulin (2-RY22): sc-134229. Western blot analysis of $\beta 2A$ Tubulin expression in Jurkat whole cell lysate.

SELECT PRODUCT CITATIONS

- Doddrell, R.D., et al. 2013. Loss of SOX10 function contributes to the phenotype of human Merlin-null schwannoma cells. *Brain* 136: 549-563.
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RESEARCH USE

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