DATASHEET
Version: 2016-08-17

β-Tubulin III Antibody, pAb, Rabbit

Cat. No.: A01203-40

Size: 40 μg

Synonyms: Rabbit Anti-Beta-Tubulin III pAb;

Description:

β-Tubulin III belongs to the tubulin family. Tubulin is the major constituent of microtubules. It forms dimers of alpha and beta chains. One mole of tubulin binds to two moles of GTP, one at an exchangeable site on the beta chain and one at a non-exchangeable site on the alpha chain. β-Tubulin III contains a highly acidic C-terminal region which can bind cations such as calcium. It is abundant in the central and peripheral nervous systems.
GenScript **Rabbit Anti-β-Tubulin III Polyclonal Antibody** is developed in rabbit hosts using a KLH-coupled synthetic peptide within residues 150-200 of human β-Tubulin III protein (Swiss Prot: Q13509).

Immunogen: Synthetic peptide (KLH-coupled) within residues 150-200 of human β-tubulin III protein (Swiss Prot: Q13509)

Host: Rabbit

Antigen Synonyms: Human

Conjugation: Unconjugated

Predicated Band Size:

50 kD

Observed Band Size:

50 kD

Formulation:

0.5 mg/ml, lyophilized with PBS, pH 7.4, containing 0.02% sodium azide

Ig Subclass: Rabbit IgG

Example

Specificity: GenScript Rabbit Anti-β-Tubulin III Polyclonal Antibody detects endogenous levels of human, rat and mouse β-tubulin III protein. Sequence homology predicts that it will also react with bovine, chicken, cynomolgus monkey. African clawed frog, and disc abalone β-tubulin III proteins.

Purification: Immunoaffinity chromatography

Applications:

Working concentrations for specific applications should be determined by the investigator. The appropriate concentrations may be affected by secondary antibody affinity, antigen concentration, the sensitivity of the method of detection, temperature, the length of the incubations, and other factors. The suitability of this antibody for applications other than those listed below has not been determined. The following concentration ranges are recommended starting points for this product.
ELISA: 0.05-0.2 μg/ml
Western blot: 0.5-1 μg/ml
Immunohistochemistry: 5-10 μg/ml
Flow cytometry: 1-3 μg for 1 x 10^6 cells
Other applications: user-optimized

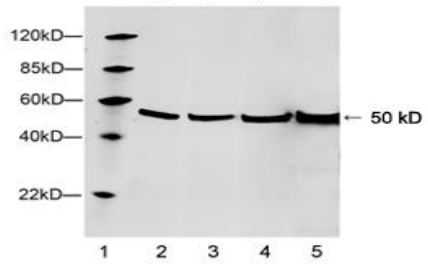
Species Reactivity: Human, mouse, and rat. This product has not yet been tested with other species. Reactivity with other β-Tubulin had not been tested yet.

Reconstitution:

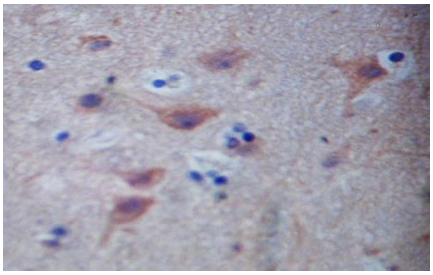
Reconstitute the lyophilized powder with deionized water (or equivalent) to an antibody concentration of 0.5 mg/ml.

Storage:

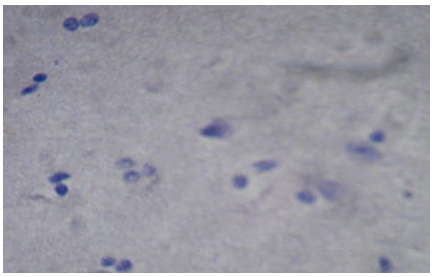
The antibody is stable in lyophilized form if stored at -20°C or below. The reconstituted antibody can be stored for 2-3 weeks at 2-8°C. For long term storage, aliquot and store at -20°C or below. Avoid repeated freezing and thawing cycles.



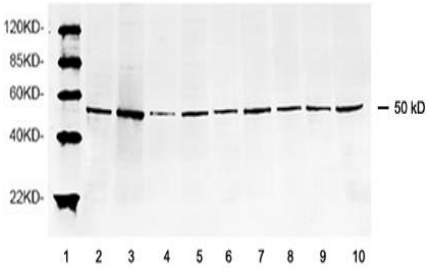
Lane 1: Marker
Lane 2: Hela cell lysate
Lane 3: HEK293 cell lysate
Lane 4: Mouse brain tissue lysate
Lane 5: Rat brain tissue lysate
Western blot analysis of lysates using 1 µg/ml Rabbit Anti-β-Tubulin III Polyclonal Antibody (GenScript, A01203)
The signal was developed with IRDye™ 800 Conjugated Goat Anti-Rabbit IgG.



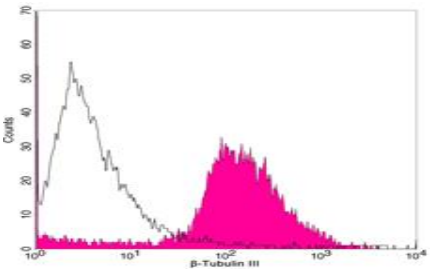
Immunohistochemistry analysis of human brain tissue slide (Paraffin embedded) using
Rabbit Anti-β-Tubulin III Polyclonal Antibody (GenScript, A01203)



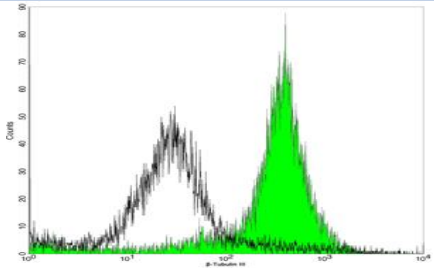
Immunohistochemistry negative control analysis of human brain tissue slide (Paraffin embedded) using
Purified Rabbit IgG (Whole Molecule) Control (GenScript, A01008)



Lane 1: Marker
Lane 2: Hela cell lysate
Lane 3: HEK293 cell lysate
Lane 4: NIH/3T3 cell lysate
Lane 5: K562 cell lysate
Lane 6: Ramos cell lysate
Lane 7: A549 cell lysate
Lane 8: HepG2 cell lysate
Lane 9: Mouse brain tissue lysate
Lane 10: Rat brain tissue lysate
Western blot analysis of lysates using 1 µg/ml Rabbit Anti-β-Tubulin III Polyclonal Antibody (GenScript, A01203)
The signal was developed with IRDye™ 800 Conjugated Goat Anti-Rabbit IgG.



Flow cytometric analysis of HeLa cells using Rabbit Anti-β-Tubulin III Polyclonal Antibody (GenScript, A01203; shaded histogram)
or with an isotype control antibody (GenScript, A01008; open histogram), followed by R-PE conjugated anti-rabbit IgG.



Flow cytometric analysis of Jurkat cells using Rabbit Anti-β-Tubulin III Polyclonal Antibody (GenScript, A01203; shaded histogram)
or with an isotype control antibody (GenScript, A01008; open histogram), followed by FITC conjugated anti-rabbit IgG.

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