Beta-Tubulin polyclonal antibody

Version: 1.1

Catalog No.: SWSPA003

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. These microtubules are involved in a wide variety of cellular activities ranging from mitosis and transport events to cell movement and the maintenance of cell shape.

Protein such as β-tubulin is frequently used as loading controls for western blots and protein normalization.

Description: A highly specific and sensitive rabbit polyclonal antibody against β-Tubulin.

Source: KLH-conjugated synthetic peptide encompassing a sequence within the N-term region of human beta-Tubulin.

Applications: WB 1:1000-2000, ICH 1:500-2000. Optimal dilution has to be determined by the user.

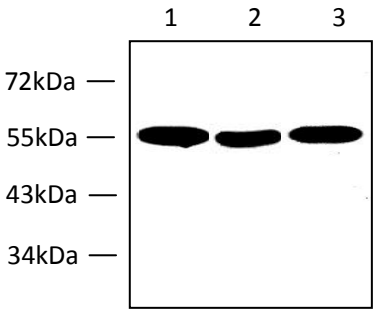
Applicable Species: mouse, rat, human.

Specifications: Each vial contains 0.1 mg IgG in 0.1 ml (1 mg/ml) of PBS pH7.4, 0.5% BSA with 0.05% sodium azide. Antibody was purified by affinity chromatography.

Storage conditions: store at 2-8℃ for 3 months, -20℃ for 1 year. To avoid freeze-thaw cycles, reconstituted antibody should be aliquoted before freezing for short-term storage (-20℃) or for long-term storage (-80℃).

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

Data:



Western blot analysis of β-Tubulin expression in Rat liver (**1**), HeLa (**2**) and NIH/3T3 (**3**) whole cell lysates

References:

1.Weisenberg, R. 1981. Invited review: the role of nucleotide triphosphate in actin and tubulin assembly and function. Cell Motil. 1: 485-497.

2. Burns, R.G. 1991. α-, β-, and γ Tubulins: sequence comparisons and structural constraints. Cell Motil. Cytoskeleton 20: 181-189.

3. Zheng, Y., et al. 1991. γ Tubulin is present in *Drosophila melangaster* and *Homo sapiens* and is associated with the centrosome. Cell 65: 817-823.

4. Leask, A. and Stearns, T. 1998. Expression of amino- and carboxyl-terminal γ and β Tubulin mutants in cultured epithelial cells. J. Biol. Chem. 273: 2661-2668.

5. Luduena, R.F. 1998. Multiple forms of tubulin: different gene products and covalent modifications. Int. Rev. Cytol. 178: 207-275.