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Product datasheet for BM169S

beta V Tubulin (TUBB) (N-term) (Loading Control) Mouse Monoclonal Antibody [Clone ID: TU-06]

Product data:

| Product Type: | Primary Antibodies |
|-----------------------|---|
| Clone Name: | TU-06 |
| Applications: | IF, IHC, WB |
| Recommended Dilution: | Immunohistochemistry (paraffin sections): 5 µg/ml, Positive tissue: heart Immunocytochemistry: 2 µg/ml. Staining technique: fixed and permeabilized cells. Positive control: 3T3 mouse embryonal fibroblast cell line Western Blot (reducing conditions): 1 µg/ml, 60 min. Positive control: HPB-ALL human peripheral blood leukemia cell line. Sample preparation: Resuspend approx. 50 mil. cells in 1 ml cold Lysis buffer (1% laurylmaltoside in 20 mM Tris/Cl, 100 mM NaCl pH 8.2, 50 mM NaF including Protease inhibitor Cocktail). Incubate 60 min on ice. Centrifuge to remove cell debris. Mix lysate with reducing Laemmli SDS-PAGE sample buffer. |
| Reactivity: | All Species |
| Host: | Mouse |
| lsotype: | IgM |
| Clonality: | Monoclonal |
| Immunogen: | Beta-subunits of porcine brain tubulin |
| Specificity: | The antibody recognizes an epitope (aa 81-95) on phylogenetically conserved N-terminal structural domain of beta-tubulin (recognizes all beta-tubulin isoforms) in various species. |
| Formulation: | Tris buffered saline (TBS) with 15 mM sodium azide, approx. pH 8.0 State: Purified State: Liquid lg fraction |
| Concentration: | lot specific |
| Purification: | Precipitation methods; purity: > 95% (by SDS-PAGE) |
| Conjugation: | Unconjugated |
| Storage: | Store the antibody at 2 - 8 °C. Do not freeze. |
| Stability: | Shelf life: one year from despatch. |



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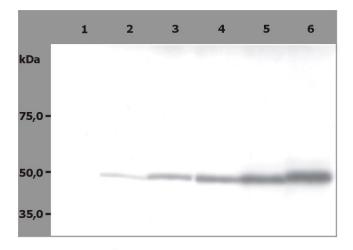


| Gene Name: tubuli | in beta class l |
|---|---|
| Database Link: <u>P0743</u> | 37 |
| polym protei 25 nm minus mitosi neces cells n (MTOC associ consic cells a dynan by the anti-ca hours termin about tubuli | nicrotubules are intracellular dynamic polymers made up of evolutionarily conserved horphic alpha/beta-tubulin heterodimers and a large number of microtubule-associated ins (MAPs). The microtubules consist of 13 protofilaments and have an outer diameter n. Microtubules have their intrinsic polarity; highly dynamic plus ends and less dynamic s ends. Microtubules are required for vital processes in eukaryotic cells including is, meiosis, maintenance of cell shape and intracellular transport. Microtubules are also issary for movement of cells by means of flagella and cilia. In mammalian tissue culture microtubules have their minus ends anchored in microtubule organizing centers Cs). The GTP (guanosintriphosphate) molecule is an essential for tubulin heterodimer to iate with other heterodimers to form microtubule. In vivo, microtubule dynamics vary derably. Microtubule polymerization is reversible and a populations of microtubules in are on their minus ends either growing or shortening this phenomenon is called mic instability of microtubules. On a practical level, microtubules can easily be stabilized e addition of non-hydrolysable analogues of GTP (eg. GMPPCP) or more commonly by ancer drugs such as Taxol. Taxol stabilizes microtubules at room temperature for many s. Using limited proteolysis by enzymes both tubulin subunits can be divided into N- nal and C-terminal structural domains. The beta-tubulin (relative molecular weight t 50 kDa) is counterpart of alpha-tubulin in tubulin heterodimer, it is coded by multiple in genes and it is also posttranslationally modified. Heterogeneity of subunit is entrated in C-terminal structural domain. |

Synonyms:

Tubulin beta chain, Tubulin beta-5 chain

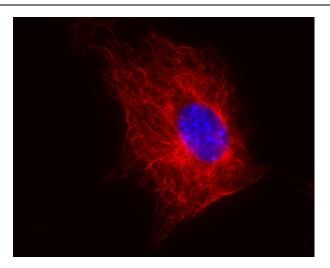
Product images:



Western Blotting analysis (reducing conditions) of HPB-ALL human peripheral blood leukemia cell line. Lane 1: negative control. Lane 2, 3, 4, 5, 6: immunostaining with anti-beta-tubulin (TU-06; dilution 0, 5 ug/ml, 1 ug/ml, 2 ug/ml, 4 ug/ml, 5 ug/ml)

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Immunofluorescence staining of 3T3 mouse embryonal fibroblast cell line using anti-betatubulin (TU-06) (detection by Goat anti-mouse IgM Cy?). Nucleus is stained with DAPI (blue).

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