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PRODUCT DATASHEET

# Anti-β-Tubulin (Ser-172), Phosphospecific Antibody

phosphosolutions ANTIBODIES THAT WORK

## Product Details

| | |
|---|---|
| **Available Variants** | 100 µL (SKU:TP1721) |
| **Conjugate** | Unconjugated |
| **Isotype** | IgG |
| **Gene Name** | TUBB3 |
| **Host Species** | Rabbit |
| **Format** | Antigen Affinity Purified |
| **Physical State** | Liquid |
| **Buffer** | PBS + 1 mg/ml BSA, 0.05% NaN3 and 50% glycerol |
| **Applications** | ELISA, ICC, WB |
| **Dilution Ranges** | WB: 1:1000<br>ICC: 1:100 |
| **Species Reactivity** | Chicken, Human, Mouse, Rat |
| **Immunogen** | Phospho-βIII-Tubulin (Ser-172) synthetic peptide (coupled to KLH) corresponding to amino acid residues around serine 172 of human βIII-Tubulin. This sequence is identical to similar regions in βI, βII, and βIII-Tubulin isotypes, and is well conserved in tubulins from most eukaryotic species. |
| **Specificity** | This antibody was cross-adsorbed to unphosphorylated βIII-Tubulin (Ser-172) peptide before affinity purification using phospho-βIII-Tubulin (Ser-172) peptide (without carrier). The antibody detects a 50 kDa* protein corresponding to the molecular mass of β-Tubulin on SDS-PAGE immunoblots of purified brain tubulin phosphorylated with ERK2 kinase. |
| **Molecular Weight** | 50 |
| **Quality Control** | Western blots performed on each lot. |
| **Storage** | Storage at -20°C is recommended, as aliquots may be taken without freeze/thawing due to presence of 50% glycerol. Stable for at least 1 year at |

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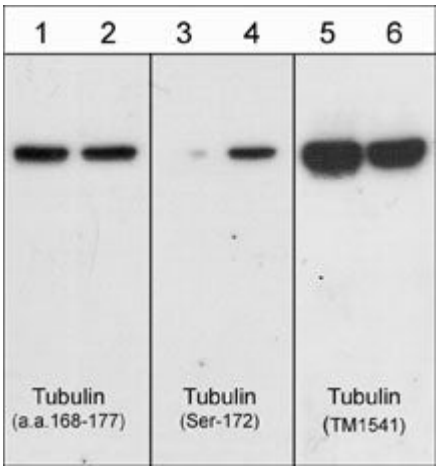
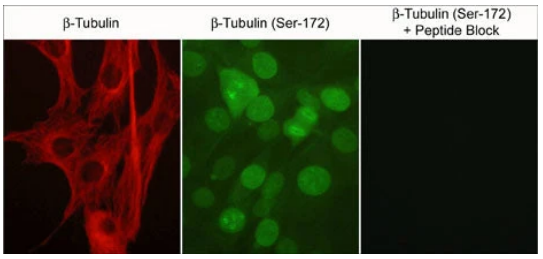
| | -20°C. |
| **UniProt ID** | Q13509 |
| **Country of Origin** | United States |
| **Shipping** | Blue Ice |
| **Expiration** | After date of receipt, stable for at least 1 year at -20°C. |
| **Usage Statement** | For research use only. Not intended for therapeutic or diagnostic use. Use of all products is subject to our terms and conditions, which can be viewed on our website. |
| **Post Translational Modification Type** | Phosphorylated |
| **Post Translational Modification Residue** | Ser-172 |

## Product Images




Western blot analysis of purified brain tubulin untreated (lanes 1,3,5) or treated with ERK2 kinase to phosphorylate Ser-172 (lanes 2,4,6). The blot was probed with anti-β-Tubulin (a.a. 168-177) (lanes 1 & 2), anti-β-Tubulin (Ser-172) (lanes 3 & 4), and anti-β-Tubulin (TM1541) (lanes 5 & 6).




Immunocytochemical labeling in C2C12 cells using anti-β-Tubulin (TM1541) monoclonal antibody and anti-β-Tubulin (Ser-172) polyclonal antibody. The specificity of the binding for the latter antibody was demonstrated by using the antibody in the presence of phospho-β-Tubulin (Ser-172) peptide (TX1725).