

# Tubulin (Bovine Brain) Lysate

Cat. # TL7151

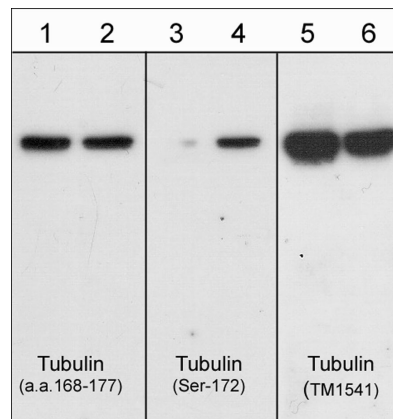
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## Lysate Preparation:

Microtubules (MTs) are cytoskeletal elements that play an essential role in cell division and cytoplasmic organization. MTs are dynamic polymers of  $\alpha/\beta$ -tubulin heterodimers. At least two populations of MTs, called dynamic and stable according to their rates of turnover, are readily distinguishable in cells. The proteins associated with MTs (MAPs) are among the best-known factors that regulate MT dynamics and stability.

For preparation of tubulin lysate, bovine brain tubulin was purified and quantified using the BCA method (Pierce) before diluting to the final concentration in gel electrophoresis sample buffer.

## Application Data:



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- $\beta$ -Tubulin (a.a. 168-177) (lanes 1 & 2), anti- $\beta$ -Tubulin (Ser-172) (lanes 3 & 4), and anti- $\beta$ -Tubulin (TM1541) (lanes 5 & 6).

## Applications:

WB 10  $\mu$ l/lane

End user should determine optimal quantity for their particular applications and experiments.

## Buffer and Storage:

Tubulin Lysate is supplied at a concentration of 20 ng/ $\mu$ l in electrophoresis sample buffer (62.5 mM Tris pH 6.8, 2% SDS, 5% glycerol, 0.003% bromophenol blue, 0.9%  $\beta$ -mercaptoethanol). Store at  $-20^{\circ}\text{C}$ . Do not boil or dilute. Stable for 1 year.

## Related Products:

- TM1541  $\beta$ -Tubulin Mouse Monoclonal
- TP1691  $\beta$ III-Tubulin (C-terminus) Rabbit Polyclonal
- TP1721  $\beta$ -Tubulin (Ser-172), phospho-specific Rabbit Polyclonal
- TP1741  $\beta$ III-Tubulin (Ser-444), phospho-specific Rabbit Polyclonal
- TP1781  $\beta$ -Tubulin (a.a. 168-177) Rabbit Polyclonal
- TP1811 unphosphorylated  $\beta$ III-Tubulin (Ser-444) Rabbit Polyclonal

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