

TPPP3 Antibody / Tubulin polymerization-promoting protein family member 3 Antibody (FY13661)

Catalog No.	Formulation	Size
FY13661	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

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Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Buffer	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
UniProt	Q9BW30
Applications	Western Blot : 0.5-1ug/ml Immunohistochemistry (FFPE) : 2-5ug/ml
Limitations	For research use only, this TPPP3 Antibody / Tubulin polymerization-promoting protein family member 3 Antibody is not intended for diagnostic or therapeutic use.

TPPP3 Antibody by WB in Rat and Mouse Lung Lysates. Western blot analysis of TPPP3 using rat lung (lane 1) and mouse lung (lane 2) tissue lysates separated by 12% SDS-PAGE. An immunoreactive band migrates near 17 kDa in both samples, with a stronger signal in the mouse lung lane. The detected band is consistent with the expected size of tubulin polymerization-promoting protein family member 3. Molecular weight markers are shown at the left of the blot. These data demonstrate recognition of TPPP3 in the tested rodent lung lysates under the reported experimental conditions.

TPPP3 Antibody by IHC in Human Fallopian Tube Tissue. Immunohistochemistry analysis of TPPP3 in a paraffin-embedded human fallopian tube section using TPPP3 Antibody. Brown DAB immunoreactivity is visible along the folded epithelial lining, while nuclei are counterstained blue with hematoxylin. Heat-mediated antigen retrieval was performed in EDTA buffer (pH 8.0), followed by blocking with 10% goat serum. The section was incubated overnight at 4°C with primary antibody at 2 ug/ml, then treated with peroxidase-conjugated goat anti-rabbit IgG and developed with DAB. The scale bar represents 200 um.

Description

TPPP3 Antibody / Tubulin polymerization-promoting protein family member 3 Antibody targets TPPP3, a member of the tubulin polymerization-promoting protein family. Microtubules are dynamic polymers that provide structural support, establish intracellular polarity, and form tracks for molecular motors. Proteins that interact with tubulin influence the balance between microtubule growth, stabilization, and disassembly. TPPP3 has been investigated as a microtubule-associated factor with potential roles in the organization of the cytoskeleton and the behavior of differentiating cells.

Members of the TPPP family share sequence features but are not functionally interchangeable. The founding family member TPPP/p25 has been studied extensively for effects on microtubule assembly and bundling, while TPPP3 remains less completely characterized. TPPP3 expression has been reported in tissues containing specialized epithelial and other differentiated cell populations. Its distribution has encouraged investigation of how cytoskeletal organization accompanies changes in cell shape and tissue architecture. Nevertheless, the presence of a TPPP-family domain does not by itself establish that every family member exerts the same biochemical effects on microtubules.

Microtubule organization is coordinated with actin filaments, intermediate filaments, and membrane trafficking machinery. Changes in this network can affect cell polarity, intracellular transport, and the positioning of organelles. TPPP3 has also appeared in studies of cellular differentiation and disease-associated expression changes, but the direct molecular steps connecting its abundance to particular phenotypes require further definition. Disentangling microtubule binding from indirect effects on cell state is central to interpreting these observations. NSJ Bioreagents offers this TPPP3 Antibody to help investigate the contribution of TPPP3 to cytoskeletal organization and differentiation-associated changes in cell architecture. More detailed characterization of its tubulin interactions may clarify where this family member overlaps with, or diverges from, other TPPP proteins.

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Application Notes

The recommended approach is to establish the optimal working dilution of the TPPP3 Antibody / Tubulin polymerization-promoting protein family member 3 Antibody through preliminary testing.

Immunogen

The TPPP3 Antibody was generated using a synthetic peptide corresponding to a sequence at the N-terminus of human TPPP3.

Storage

After reconstitution, keep the TPPP3 Antibody at 4°C for up to one month. Alternatively, store aliquots at -20°C for up to six months. Avoid multiple freezing and thawing cycles.

Alternate Names

TPPP3 antibody, Tubulin polymerization-promoting protein family member 3 antibody, tubulin polymerization promoting protein family member 3 antibody, TPPP/p20 antibody, p25gamma antibody, p20 antibody, CGI-38 antibody

