

#### **TPPP3 Antibody (C-term)**

Affinity Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP5004b

#### Specification

## **TPPP3 Antibody (C-term) - Product Information**

Application Primary Accession Other Accession Reactivity Predicted Host Clonality Isotype Antigen Region WB, IHC-P, FC,E <u>O9BW30</u> <u>O5PPN5</u>, <u>O9CRB6</u>, <u>O3ZCC8</u> Human, Mouse, Rat Bovine Rabbit Polyclonal Rabbit IgG 117-146

### **TPPP3 Antibody (C-term) - Additional Information**

Gene ID 51673

**Other Names** Tubulin polymerization-promoting protein family member 3, TPPP/p20, TPPP3

**Target/Specificity** 

This TPPP3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 117-146 amino acids of human TPPP3.

**Dilution** WB~~1:2000 IHC-P~~1:50~100 FC~~1:10~50

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

TPPP3 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

### **TPPP3 Antibody (C-term) - Protein Information**

Name TPPP3 {ECO:0000303|PubMed:19633818, ECO:0000312|HGNC:HGNC:24162}



**Function** Regulator of microtubule dynamic that has microtubule bundling activity (PubMed:<u>17105200</u>, PubMed:<u>19633818</u>). Required for embryo implantation; possibly by regulating beta-catenin (By similarity). Also required for decidualization via regulation of beta- catenin (PubMed:<u>30667362</u>).

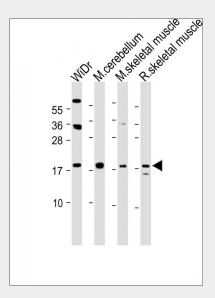
**Cellular Location** Cytoplasm. Cytoplasm, cytoskeleton

**Tissue Location** Expressed in endometrium during the mid-secretory phase (LH + 7) (at protein level).

# **TPPP3 Antibody (C-term) - Protocols**

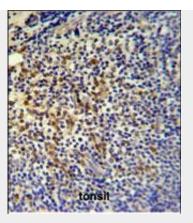
Provided below are standard protocols that you may find useful for product applications.

- <u>Western Blot</u>
- <u>Blocking Peptides</u>
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- <u>Cell Culture</u>
- **TPPP3 Antibody (C-term) Images**

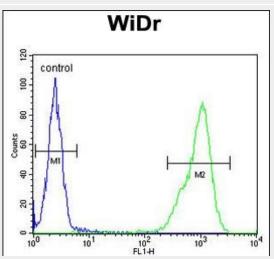


All lanes : Anti-TPPP3 Antibody (C-term) at 1:2000 dilution Lane 1: WiDr whole cell lysate Lane 2: Mouse cerebellum lysate Lane 3: Mouse skeletal muscle lysate Lane 4: Rat skeletal muscle lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 19 kDa Blocking/Dilution buffer: 5% NFDM/TBST.





TPPP3 Antibody (C-term) (Cat. #AP5004b) IHC analysis in formalin fixed and paraffin embedded tonsil followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the TPPP3 Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.



TPPP3 Antibody (C-term) (Cat. #AP5004b) flow cytometric analysis of WiDr cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

### TPPP3 Antibody (C-term) - Background

TPPP3 binds tubulin and has microtubule bundling activity. TPPP3 may play a role in cell proliferation and mitosis.

### **TPPP3 Antibody (C-term) - References**

Zhou, W., et al. Mol. Cell. Biochem. 333 (1-2), 91-98 (2010) Martins-de-Souza, D., et al. Eur Arch Psychiatry Clin Neurosci 259(3):151-163(2009) Vincze, O., et al. Biochemistry 45(46):13818-13826(2006)

**TPPP3 Antibody (C-term) - Citations** 

- Knockdown of Tubulin Polymerization Promoting Protein Family Member 3 inhibits cell proliferation and invasion in human colorectal cancer.
- Knockdown of Tubulin Polymerization Promoting Protein Family Member 3 Suppresses Proliferation and Induces Apoptosis in Non-Small-Cell Lung Cancer.