

**PTK9 (TWF1) Antibody (Y321) Blocking peptide**  
**Synthetic peptide**  
**Catalog # BP7198d****Specification**

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**PTK9 (TWF1) Antibody (Y321) Blocking peptide - Product Information**

Primary Accession [O12792](#)  
Other Accession [Q6NUK9](#)

**PTK9 (TWF1) Antibody (Y321) Blocking peptide - Additional Information**

**Gene ID** 5756

**Other Names**

Twinfilin-1, Protein A6, Protein tyrosine kinase 9, TWF1, PTK9

**Target/Specificity**

The synthetic peptide sequence used to generate the antibody [<a href=/products/AP7198d>AP7198d</a>](#) was selected from the Y321 region of human TWF1. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**PTK9 (TWF1) Antibody (Y321) Blocking peptide - Protein Information**

**Name** TWF1

**Synonyms** PTK9

**Function**

Actin-binding protein involved in motile and morphological processes. Inhibits actin polymerization, likely by sequestering G-actin. By capping the barbed ends of filaments, it also regulates motility. Seems to play an important role in clathrin-mediated endocytosis and distribution of endocytic organelles (By similarity).

**Cellular Location**

Cytoplasm. Cytoplasm, cytoskeleton. Note=Diffuse cytoplasmic localization with perinuclear and G-actin-rich cortical actin structures sublocalization. Also found at membrane ruffles and cell-cell contacts (By similarity).

**Tissue Location**

Expressed at high levels in the colon, testis, ovary, prostate and lung. Expressed at lower levels in the brain, bladder and heart. Not detected in liver.

**PTK9 (TWF1) Antibody (Y321) Blocking peptide - Protocols**

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

- [Blocking Peptides](#)

**PTK9 (TWF1) Antibody (Y321) Blocking peptide - Images****PTK9 (TWF1) Antibody (Y321) Blocking peptide - Background**

Twinfilin is an actin monomer-binding protein conserved from yeast to mammals. Studies of the mouse counterpart suggest that this protein may be an actin monomer-binding protein, and its localization to cortical G-actin-rich structures may be regulated by the small GTPase RAC1.

**PTK9 (TWF1) Antibody (Y321) Blocking peptide - References**

Vartiainen, M.K., et al., J. Biol. Chem. 278(36):34347-34355 (2003). Ojala, P.J., et al., Mol. Biol. Cell 13(11):3811-3821 (2002). Beeler, J.F., et al., Mol. Cell. Biol. 14(2):982-988 (1994). Palmgren, S., et al., J. Cell. Sci. 115 (Pt 5), 881-886 (2002).