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Phospho-TWF1(Y309) Antibody Blocking peptide

Synthetic peptide
Catalog # BP3545a

Specification

Phospho-TWF1(Y309) Antibody Blocking peptide - Product Information

Primary Accession	Q12792
Other Accession	Q6NUK9

Phospho-TWF1(Y309) Antibody 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 AP3545a was selected from the region of human Phospho-TWF1-pY321. 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.

Phospho-TWF1(Y309) Antibody 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.

Phospho-TWF1(Y309) Antibody Blocking peptide - Protocols

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

- Blocking Peptides

Phospho-TWF1(Y309) Antibody Blocking peptide - Images

Phospho-TWF1(Y309) Antibody 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.

Phospho-TWF1(Y309) Antibody 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)