

Recombinant Human TWF1, His-tagged

Cat. No. TWF1-30334TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment Human PTK9 with an N terminal His tag; 277 aa, 31.5 kDa inclusive of tag.
Species	Human
Source	E.coli
ProteinLength	251 amino acids
Description	This gene encodes twinfilin, 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.
Conjugation	HIS
Molecular Weight	31.500kDa inclusive of tags
Tissue specificity	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.
Form	Liquid
Purity	by SDS-PAGE

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Storage buffer	pH: 8.00Constituents:0.32% Tris HCl, 40% Glycerol, 0.88% Sodium chloride, 0.02% DTT
Storage	Store at +4°C short term (1-2 weeks). Aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Sequences of amino acids	MGSSHHHHHH SSGLVPRGSH MGSHM MLYAA TRATLKKEFG GGHIKDEVFG TVKEDVSLHG YKKYLLSQSS PAPLTAAEEE LRQIKINEVQ TDVGVDTKHQ TLQGVAFPIS REAFQALEKL NNRQLNYVQL EIDIKNEIII LANTTNTELK DLPKRIPKDS ARYHFFLYKH SHEGDYLESI VFIYSMPGYT CSIRERMLYS SCKSRLLLEIV ERQLQMDVIR KIEIDNGDEL TADFLYEEVH PKQHAHKQSF AKPKGPA GKR GIRRLIRGPA ETEATTD
Sequence Similarities	Belongs to the actin-binding proteins ADF family. Twinfilin subfamily.Contains 2 ADF-H domains.

GENE INFORMATION

Gene Name	TWF1 twinfilin, actin-binding protein, homolog 1 (Drosophila) [Homo sapiens]
Official Symbol	TWF1
Synonyms	TWF1; twinfilin, actin-binding protein, homolog 1 (Drosophila); protein tyrosine kinase 9 , PTK9, PTK9 protein tyrosine kinase 9; twinfilin-1; A6;
Gene ID	5756
mRNA Refseq	NM_001242397
Protein Refseq	NP_001229326

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MIM	610932
Uniprot ID	Q12792
Chromosome Location	12q12
Pathway	superpathway of gluconate degradation, organism-specific biosystem;
Function	ATP binding; actin monomer binding; phosphatidylinositol-4,5-bisphosphate binding; protein tyrosine kinase activity; NOT protein tyrosine kinase activity;

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