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Datasheet for ABIN7317476

TWF1 Protein

Overview

Quantity:	100 µg
Target:	TWF1
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant

Product Details

Purpose:	Recombinant Human TWF1/Twinfilin-1 Protein
Sequence:	Met 1-Asp 252
Characteristics:	A DNA sequence encoding the human TWF1 isoform 4 (Q12792-4) (Met 1-Asp 252) was expressed and purified, with additional two amino acids (Gly & Pro) at the N-terminus.
Purity:	> 94 % as determined by reducing SDS-PAGE.

Target Details

Target:	TWF1
Alternative Name:	TWF1/Twinfilin-1 (TWF1 Products)
Background:	Background: Twinfilin-1; also known as Protein A6; Protein tyrosine kinase 9; TWF1 and PTK9; is a cytoplasm protein which belongs to the actin-binding proteins ADF family and Twinfilin subfamily. Twinfilin-1 (TWF1 / PTK9) is a highly conserved actin monomer-binding protein that regulates cytoskeletal dynamics in organisms from yeast to mammals. In addition to the mammalian twinfilin-1; a second protein with approximately 65% sequence identity to twinfilin-1

Target Details

exists in mouse and humans. TWF1 / PTK9 is expressed at high levels in the colon; testis; ovary; prostate and lung. It is expressed at lower levels in the brain; bladder and heart. It is not detected in liver. TWF1 / PTK9 is an actin-binding protein involved in motile and morphological processes. It inhibits actin polymerization; likely by sequestering G-actin. By capping the barbed ends of filaments; it also regulates motility. TWF1 / PTK9 seems to play an important role in clathrin-mediated endocytosis and distribution of endocytic organelles.

Synonym: A6;MGC23788;MGC41876;PTK9

Molecular Weight: 29 kDa

Pathways: [Regulation of Actin Filament Polymerization](#), [Maintenance of Protein Location](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Please refer to the printed manual for detailed information.

Buffer: Lyophilized from sterile PBS, pH 7.4, 10 % glycerol

Storage: 4 °C, -20 °C, -80 °C

Storage Comment: Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.