



Rabbit Anti-TWF2 antibody

SL12044R

Product Name:	TWF2
Chinese Name:	CytoskeletonBinding protein2抗体
Alias:	A6 related protein; A6r; A6RP; hA6RP; MSTP011; Protein tyrosine kinase 9 like; PTK9L; PTK9L; PTK9L; PTK9L protein tyrosine kinase 9 like; TWF 2; Twinfilin 1 like protein; Twinfilin 2; Twinfilin actin binding protein homolog 2; Twinfilin like protein; Twinfilin2; TWF2_HUMAN.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Chicken,Dog,Pig,Cow,Horse,Sheep,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	39kDa
Cellular localization:	cytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human TWF2/PTK9L:51-150/349
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	The protein encoded by this gene was identified by its interaction with the catalytic domain of protein kinase C-zeta. The encoded protein contains an actin-binding site and an ATP-binding site. It is most closely related to twinfilin (PTK9), a conserved actin monomer-binding protein. [provided by RefSeq, Jul 2008]

Function:

TWF2 (Twinstin 2) was identified by its interaction with the catalytic domain of protein kinase C zeta. It contains an actin binding site and an ATP binding site and is most closely related to twinstin (PTK9), a conserved actin monomer binding protein. TWF2 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. It seems to play an important role in clathrin mediated endocytosis and distribution of endocytic organelles.

Subunit:

Interacts with G-actin; ADP-actin form and capping protein (CP). May also be able to interact with TWF1 and phosphoinositides, PI(4,5)P2. When bound to PI(4,5)P2, it is down-regulated. Interacts with MYO7A

Subcellular Location:

Cytoplasmic, cytoskeleton. Cytoplasmic, perinuclear region. Note: Perinuclear and G actin rich cortical actin structures sublocalization.

Tissue Specificity:

Ubiquitously expressed (at protein level).

Post-translational modifications:

In vitro, phosphorylated by PRKCZ, CK2 and SRC.

Similarity:

Belongs to the actin-binding proteins ADF family. Twinstin subfamily. Contains 2 ADF-H domains.

SWISS:

Q6IBS0

Gene ID:

11344

Database links:

[Entrez Gene: 11344](#) Human

[Entrez Gene: 23999](#) Mouse

[Omim: 607433](#) Human

[SwissProt: Q6IBS0](#) Human

[SwissProt: Q9Z0P5](#) Mouse

[Unigene: 436439](#) Human

[Unigene: 274346](#) Mouse

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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