

**TWF1 Antibody**  
**Purified Mouse Monoclonal Antibody**  
**Catalog # AO1756a**

**Specification**

**TWF1 Antibody - Product Information**

Application	E, WB, IHC, IF, FC
Primary Accession	<a href="#">Q12792</a>
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Calculated MW	40.3kDa KDa

**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.

**Immunogen**

Purified recombinant fragment of human TWF1 (AA: 335-384 ) expressed in E. Coli.

**Formulation**

Purified antibody in PBS with 0.05% sodium azide

**TWF1 Antibody - Additional Information**

**Gene ID** 5756

**Other Names**

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

**Dilution**

E~~1/10000  
WB~~1/500 - 1/2000  
IHC~~1/200 - 1/1000  
IF~~1/100  
FC~~1/200 - 1/400

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

TWF1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**TWF1 Antibody - 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).

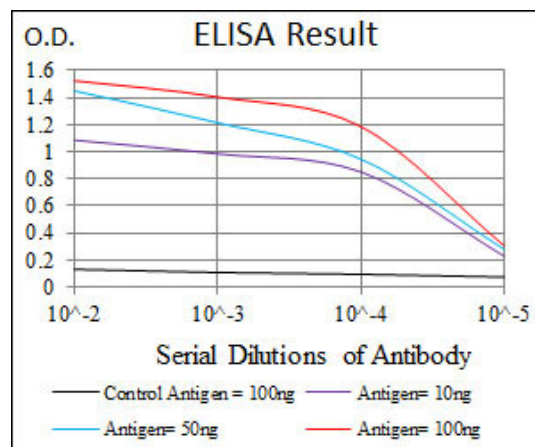
**Tissue Location**

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.

**TWF1 Antibody - Protocols**

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)



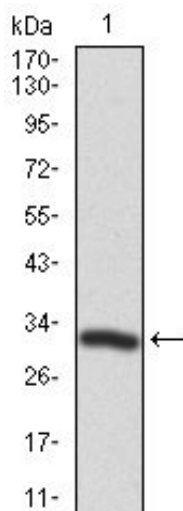


Figure 1: Western blot analysis using TWF1 mAb against human TWF1 recombinant protein. (Expected MW is 31.1 kDa)

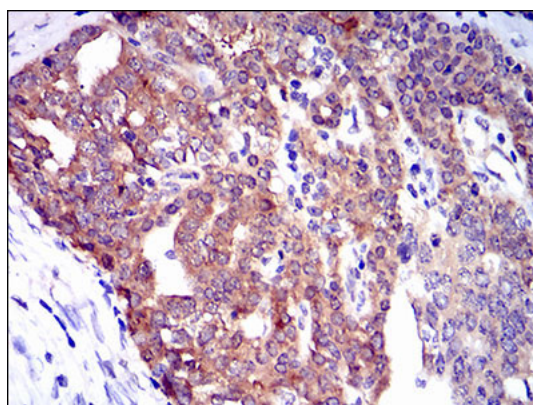


Figure 2: Immunohistochemical analysis of paraffin-embedded ovarian cancer tissues using TWF1 mouse mAb with DAB staining.

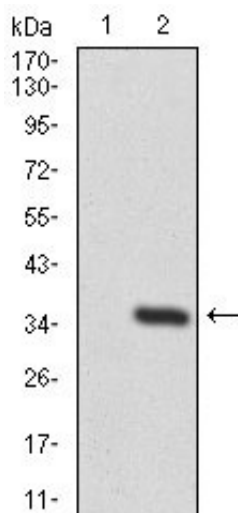


Figure 2: Western blot analysis using TWF1 mAb against HEK293 (1) and TWF1 (AA: 335-384)-hlgGfc transfected HEK293 (2) cell lysate.

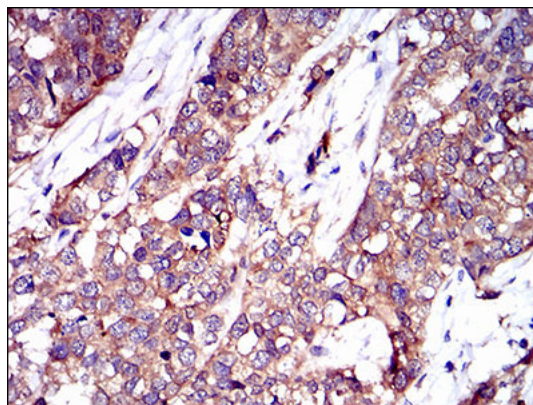


Figure 2: Immunohistochemical analysis of paraffin-embedded bladder cancer tissues using TWF1 mouse mAb with DAB staining.

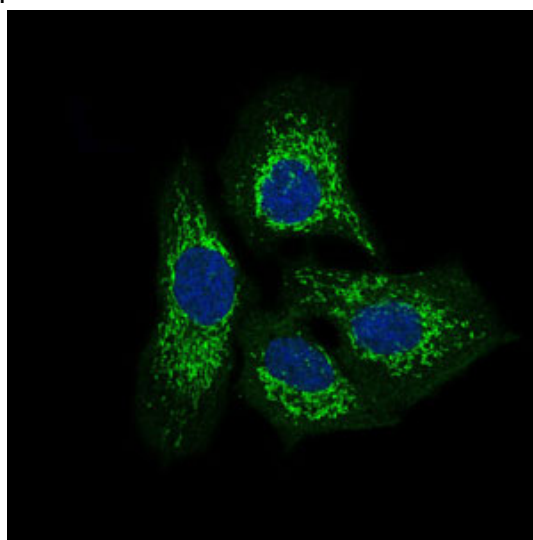


Figure 3: Immunofluorescence analysis of HeLa cells using TWF1 mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye.

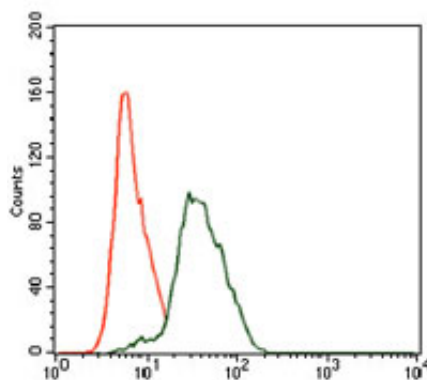


Figure 4: Flow cytometric analysis of HeLa cells using TWF1 mouse mAb (green) and negative control (red).

#### TWF1 Antibody - References

1. Cancer Epidemiol Biomarkers Prev. 2010 May;19(5):1356-61.
2. Cancer Epidemiol Biomarkers Prev. 2009 May;18(5):1651-8.