10320 Camino Santa Fe, Suite G
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TWF1 Antibody
Purified Mouse Monoclonal Antibody
Catalog # AO1756a

Specification

TWF1 Antibody - Product Information

Application	**E, WB, IHC, IF, FC**
Primary Accession	Q12792
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

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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).

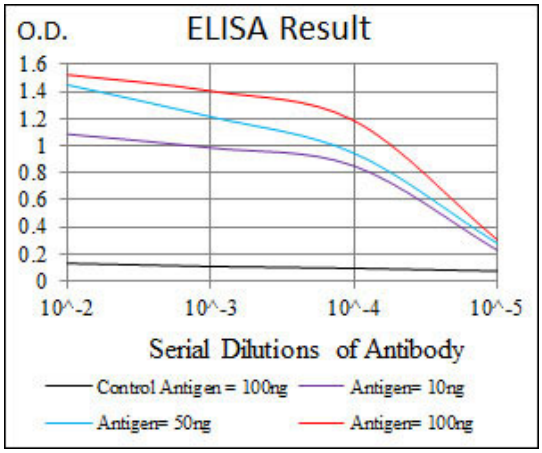
Cellular Location
Cytoplasm. Cytoplasm, cytoskeleton. Note=Diffuse cytoplasmic localization with perinuclear and G-actin-rich cortical actin structures sublocalization. Also found at membrane ruffles and cell-cell contacts (By similarity).

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 Cytomety
- Cell Culture



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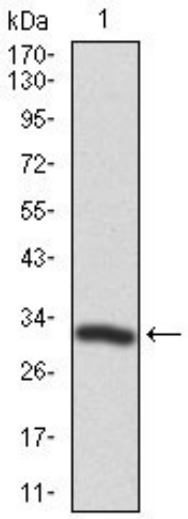

Figure 1: Western blot analysis using TWF1 mAb against human TWF1 recombinant protein. (Expected MW is 31.1 kDa)

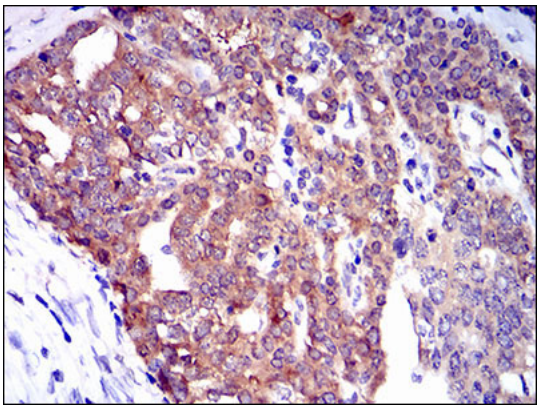

Figure 2: Immunohistochemical analysis of paraffin-embedded ovarian cancer tissues using TWF1 mouse mAb with DAB staining.

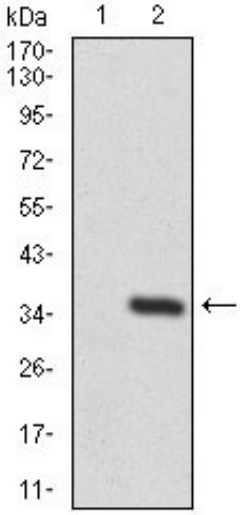

Figure 2: Western blot analysis using TWF1 mAb against HEK293 (1) and TWF1 (AA: 335-384)-hIgGFc transfected HEK293 (2) cell lysate.

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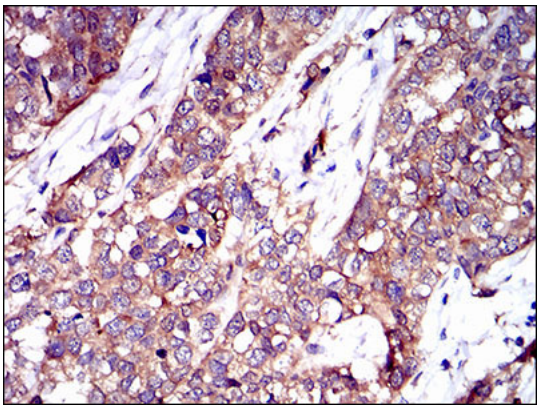

Figure 2: Immunohistochemical analysis of paraffin-embedded bladder cancer tissues using TWF1 mouse mAb with DAB staining.

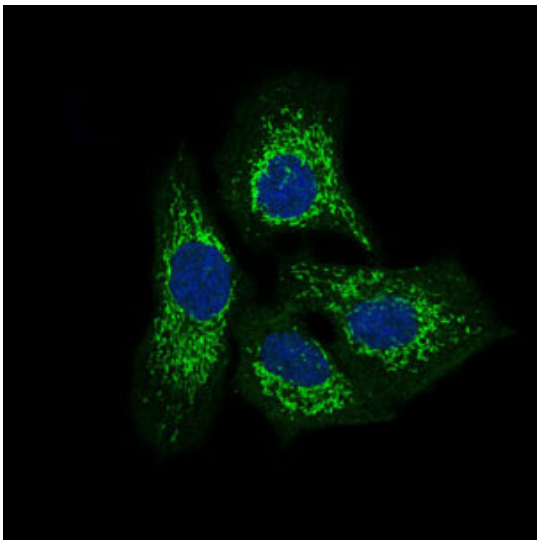

Figure 3: Immunofluorescence analysis of HeLa cells using TWF1 mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye.

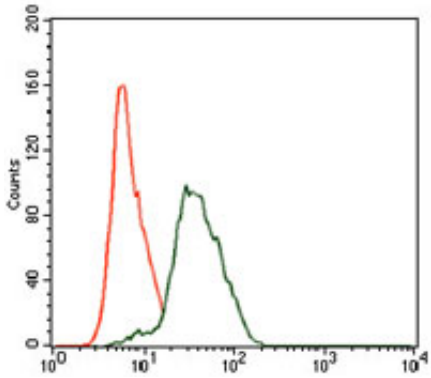

Figure 4: Flow cytometric analysis of HeLa cells using TWF1 mouse mAb (green) and negative control (red).

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.