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TWF1 Antibody

Purified Mouse Monoclonal Antibody
Catalog # AO1756a

Product Information

Application	WB, IHC, FC, ICC, E
Primary Accession	Q12792
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Clone Names	7C11
Isotype	IgG1
Calculated MW	40283
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

Additional Information

Gene ID	5756
Other Names	Twinfilin-1, Protein A6, Protein tyrosine kinase 9, TWF1, PTK9
Dilution	WB~~1/500 - 1/2000 IHC~~1/200 - 1/1000 FC~~1/200 - 1/400 ICC~~N/A E~~1/10000
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.

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.

References

1.Cancer Epidemiol Biomarkers Prev. 2010 May;19(5):1356-61.2.Cancer Epidemiol Biomarkers Prev. 2009 May;18(5):1651-8.

Images

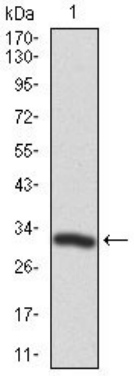


Figure 1: Western blot analysis using TWF1 mAb against human TWF1 recombinant protein. (Expected MW is 31.1 kDa)

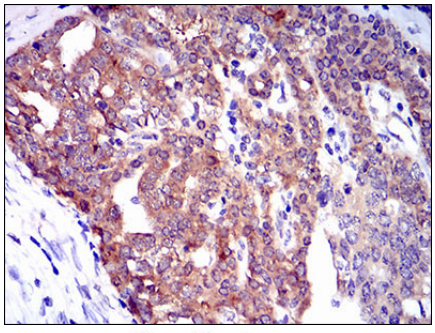


Figure 2: Immunohistochemical analysis of paraffin-embedded ovarian cancer tissues using TWF1 mouse mAb with DAB staining.

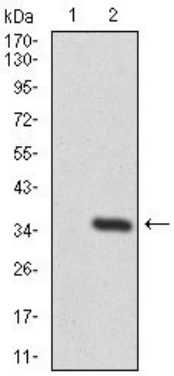
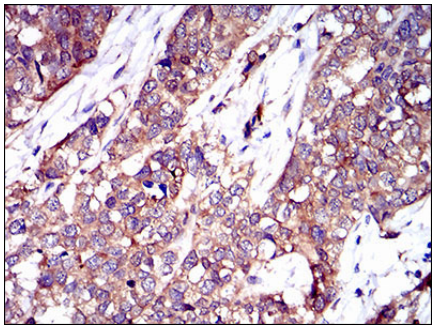


Figure 2: Western blot analysis using TWF1 mAb against HEK293 (1) and TWF1 (AA: 335-384)-hIgGFc transfected HEK293 (2) cell lysate.

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



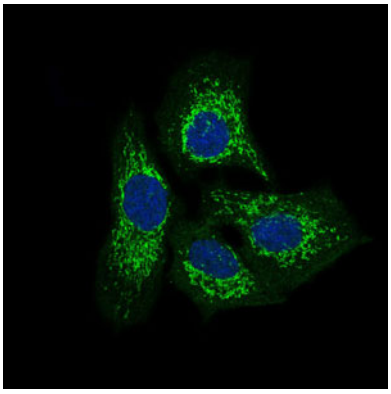


Figure 3: Immunofluorescence analysis of HeLa cells using TWF1 mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye.

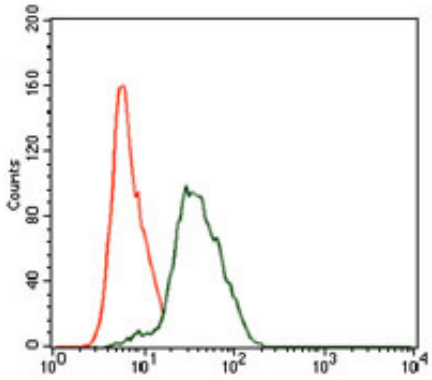


Figure 4: Flow cytometric analysis of HeLa cells using TWF1 mouse mAb (green) and negative control (red).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.