

Product Name: WT1 Mouse Monoclonal Antibody
Catalog #: AMM82467



Summary

Production Name	WT1 Mouse Monoclonal Antibody
Description	Mouse Monoclonal Antibody
Host	Mouse
Application	WB,IHC,ICC,FC,ELISA
Reactivity	Human, Monkey

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	Mouse IgG1
Clonality	Monoclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Purified antibody in PBS with 0.05% sodium azide
Purification	Affinity Purification

Immunogen

Gene Name	WT1
Alternative Names	GUD; AWT1; WAGR; WT33; NPHS4; WIT-2
Gene ID	7490.0
SwissProt ID	P19544.Purified recombinant fragment of human WT1 (AA: 1-181) expressed in E. Coli.

Application

Dilution Ratio	WB:1:500-1:2000,IHC:1:200-1:1000,ICC:1:200-1:1000,FC:1:200-1:400,ELISA:1:10000
Molecular Weight	49.2kDa

Background

This gene encodes a transcription factor that contains four zinc-finger motifs at the C-terminus and a proline/glutamine-

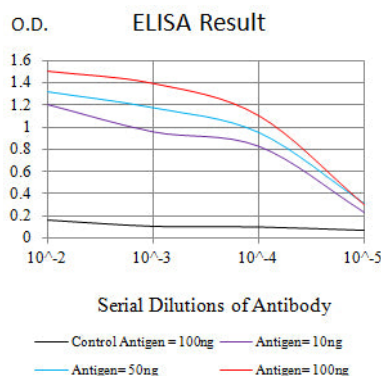
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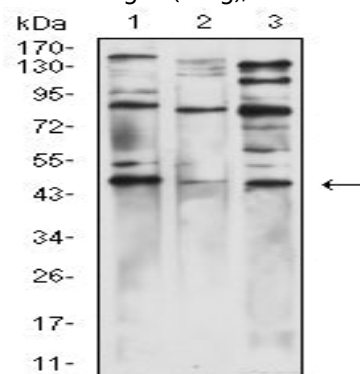
rich DNA-binding domain at the N-terminus. It has an essential role in the normal development of the urogenital system, and it is mutated in a small subset of patients with Wilms tumor. This gene exhibits complex tissue-specific and polymorphic imprinting pattern, with biallelic, and monoallelic expression from the maternal and paternal alleles in different tissues. Multiple transcript variants have been described. In several variants, there is evidence for the use of a non-AUG (CUG) translation initiation codon upstream of, and in-frame with the first AUG. Authors of PMID:7926762 also provide evidence that WT1 mRNA undergoes RNA editing in human and rat, and that this process is tissue-restricted and developmentally regulated.

Research Area

Image Data

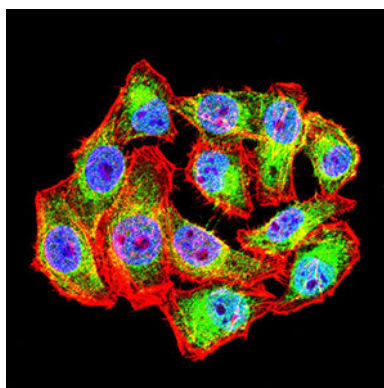


Black line: Control Antigen (100 ng);Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line: Antigen (100 ng)

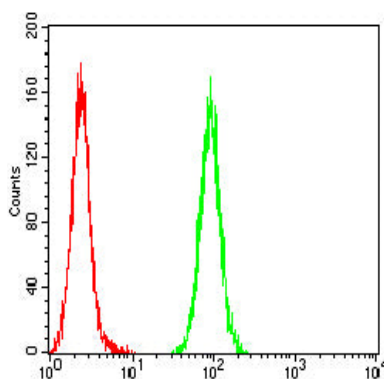


Western blot analysis using WT1 mouse mAb against HEK293 (1), COS7 (2), and PC-3 (3) cell lysate.

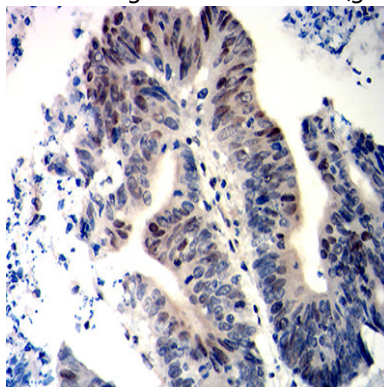
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Immunofluorescence analysis of HeLa cells using WT1 mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin. Secondary antibody from Fisher (Cat#: 35503)

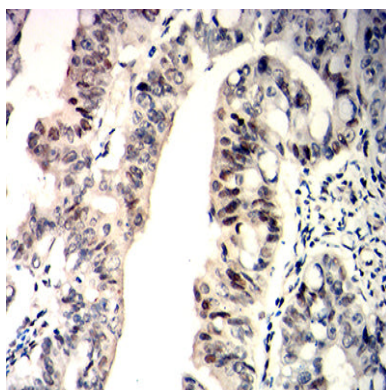


Flow cytometric analysis of HeLa cells using WT1 mouse mAb (green) and negative control (red).



Immunohistochemical analysis of paraffin-embedded human colon cancer tissues using WT1 mouse mAb with DAB staining.

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Immunohistochemical analysis of paraffin-embedded human rectum cancer tissues using WT1 mouse mAb with DAB staining.

Note

For research use only.