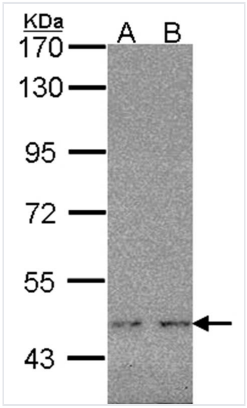
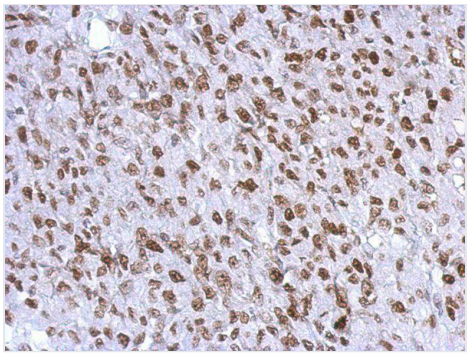
WT1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

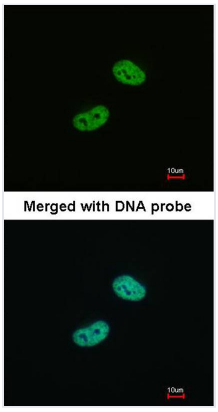
Product Name	WT1, Polyclonal Antibody
Full Product Name	WT1 antibody
Product Gene Name	anti-WT1 antibody
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied in 0.1M Tris-buffered saline with 10% Glycerol (pH7.0). 0.01% Thimerosal was added as a preservative.
Purity/Purification	Purified by antigen-affinity chromatography.
Preparation and Storage	Store at -20 degree C for long term preservation (recommended). Store at 4 degree C for short term use.
Molecular Weight	33,086 Da
OMIM	136680
Immunogen Type	Recombinant protein
Immunogen Description	Recombinant protein fragment contain a sequence corresponding to a region within amino acids 277 and 495 (P19544) of Wilms Tumor 1
Target Name	WT1
Product Categories/Family for anti-WT1 antibody	Total protein Ab
Applications Tested/Suitable for anti-WT1 antibody	Western Blot (WB), Immunohistochemistry (IHC), Immunofluorescence (IF)
Application Notes for anti-WT1 antibody	Western blotting: 1:500-1:3000 Immunohistochemistry: 1:50-1:500 Immunofluorescence: 1:100-1:200
Related Product Information for anti-WT1 antibody	This gene encodes a transcription factor that contains four zinc-finger motifs at the C-terminus and a proline/glutamine-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 Wilm's tumors. Multiple transcript variants, resulting from alternative splicing at two coding exons, have been well characterized. There is also evidence for the use of non-AUG (CUG) translation initiation site upstream of, and in-frame with the first AUG, leading to additional isoforms. 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. [provided by RefSeq]
Other Notes	Small volumes of anti-WT1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for WT1 purchase	MBS9409229 is an antibody targeting WT1. Also known as WT1 antibody. Reactive in Human. Host: Rabbit.



Testing Data of anti-WT1 antibody
Sample (30 ug of whole cell lysate) A: Molt-4 B: Raji 10% SDS PAGE Primary antibody diluted at 1: 1000



Immunohistochemistry (IHC) of anti-WT1 antibody
Immunohistochemical analysis of paraffin-embedded RT2 xenograft, using Wilms Tumor 1 antibody at 1: 500 dilution.



Immunofluorescence (IF) of anti-WT1 antibody
Immunofluorescence analysis of paraformaldehyde-fixed HeLa, using WT1 antibody at 1: 200 dilution.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for WT1. It may not necessarily be applicable to this product.

NCBI GI #	65508004
NCBI GeneID	7490
NCBI Accession #	NP_077744
UniProt Secondary Accession #	Q15881; Q16256; Q16575; Q4VXV4; Q4VXV5; Q4VXV6; Q8IYZ5; A8K6S1; B3KSA5
UniProt Related Accession #	P19544
GenBank Nucleotide #	NM_024426.4
NCBI Official Full Name	Wilms tumor protein isoform D
NCBI Official Synonym Full Names	Wilms tumor 1
NCBI Official Symbol	WT1
NCBI Official Synonym Symbols	GUD; AWT1; WAGR; WT33; NPHS4; WIT-2; EWS-WT1
UniProt Protein Name	Wilms tumor protein
UniProt Synonym Protein Names	WT33
Protein Family	Wilms tumor protein
UniProt Gene Name	WT1

UniProt Entry Name	WT1_HUMAN
NCBI Protein Information	Wilms tumor protein
NCBI Summary for WT1	This gene encodes a transcription factor that contains four zinc-finger motifs at the C-terminus and a proline/glutamine-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. [provided by RefSeq, Mar 2015]
UniProt Comments for WT1	WT1: a DNA binding protein and apparent transcriptional regulator. Recognizes and binds to the DNA sequence 5'-CGCCCCCGC-3'. Expressed in the kidney and a subset of hematopoietic cells. Defects in WT1 are the cause of Wilms tumor 1 (WT1), an embryonal malignancy of the kidney that affects approximately 1 in 10'000 infants and young children. It occurs both in sporadic and hereditary forms. Four alternatively spliced isoforms have been described. Protein type: Tumor suppressor; C2H2-type zinc finger protein; Nucleolus; Transcription factor; DNA-binding Chromosomal Location of Human Ortholog: 11p13 Cellular Component: cytoplasm; nuclear speck; nucleolus; nucleoplasm; nucleus Molecular Function: protein binding; RNA binding; sequence-specific DNA binding; transcription factor activity; zinc ion binding Biological Process: adrenal gland development; camera-type eye development; epithelial cell differentiation; germ cell development; glomerular basement membrane development; glomerulus development; gonad development; heart development; kidney development; male genitalia development; male gonad development; negative regulation of apoptosis; negative regulation of cell growth; negative regulation of cell proliferation; negative regulation of transcription from RNA polymerase II promoter; negative regulation of transcription, DNA-dependent; negative regulation of translation; positive regulation of apoptosis; positive regulation of transcription from RNA polymerase II promoter; positive regulation of transcription, DNA-dependent; regulation of transcription from RNA polymerase II promoter; regulation of transcription, DNA-dependent; RNA splicing; sex determination; thorax and anterior abdomen determination; tissue development; transcription from RNA polymerase II promoter; ureteric bud branching; ureteric bud development; vasculogenesis Disease: Aniridia; Denys-drash Syndrome; Frasier Syndrome; Meacham Syndrome; Mesothelioma, Malignant; Nephrotic Syndrome, Type 4; Wilms Tumor 1; Wilms Tumor, Aniridia, Genitourinary Anomalies, And Mental Retardation Syndrome
Research Articles on WT1	**1.** WT1 physically interacts with TET2 and TET3, and WT1 loss of function results in a similar hematopoietic differentiation phenotype as observed with TET2 deficiency.
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