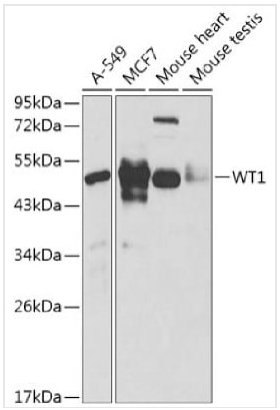
WT1 Antibody – Rabbit Polyclonal

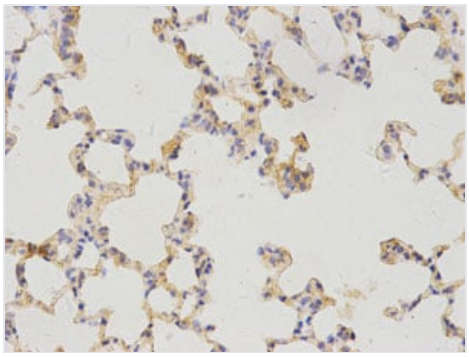
PRODUCT OVERVIEW

Product Name	WT1, Polyclonal Antibody
Full Product Name	WT1 Antibody
Product Gene Name	anti-WT1 antibody
Product Synonym Names	GUD; AWT1; WAGR; WT33; NPHS4
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purity/Purification	Antibodies were purified by affinity purification using immunogen.
Concentration	1.0 mg/ml (lot specific)
Specificity	The antibody detects endogenous level of total WT1 protein.
Preparation and Storage	Store at -20°C
OMIM	136680
3D Structure	ModBase 3D Structure for P19544
Immunogen Type	Recombinant Protein
Immunogen Description	Recombinant protein of human WT1.
SDS-PAGE MW	49kD
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 - 1:2000 Immunohistochemistry: 1:50 - 1:100 Immunofluorescence: 1:50 - 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. 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 site 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.
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.

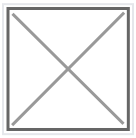
Searchable Terms for WT1 purchase	MBS9410783 is an antibody targeting WT1. Also known as WT1 Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.



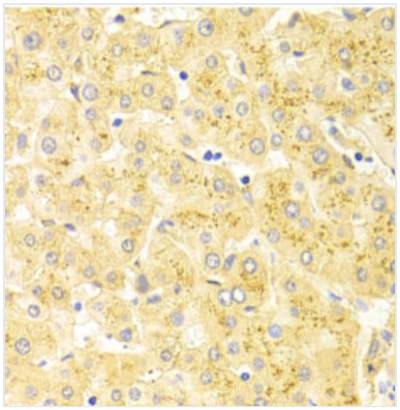
Western Blot (WB) of anti-WT1 antibody
Western blot analysis of extracts of various cell lines using WT1 at 1:1000 dilution.



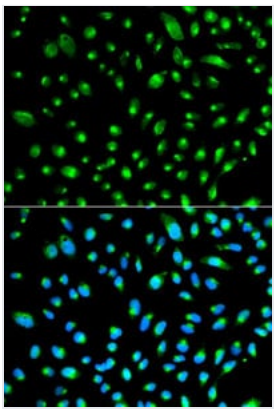
Immunohistochemistry (IHC) of anti-WT1 antibody
Immunohistochemical analysis of paraffin-embedded human kidney cancer using WT1 antibody at dilution of 1:500 (400x lens).



Immunohistochemistry (IHC) of anti-WT1 antibody
Immunohistochemical analysis of paraffin-embedded rat lung using WT1 antibody at dilution of 1:500 (400x lens).



Immunohistochemistry (IHC) of anti-WT1 antibody
Immunohistochemistry of paraffin-embedded human liver damage using WT1 at dilution of 1:100 (40x lens).



Immunofluorescence (IF) of anti-WT1 antibody
Immunofluorescence analysis of HeLa cell using WT1 antibody. Blue: DAPI for nuclear staining.

ADDITIONAL DETAILS

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

NCBI GI #	65507714
NCBI GeneID	7490
NCBI Accession #	NP_000369.3

UniProt Primary Accession #	P19544
UniProt Secondary Accession #	Q15881; Q16256; Q16575; Q4VXV4; Q4VXV5; Q4VXV6; Q8IYZ5; A8K6S1; B3KSA5
UniProt Related Accession #	P19544
GenBank Nucleotide #	NM_000378.4
NCBI Official Full Name	Wilms tumor protein isoform A
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	Transcription factor that plays an important role in cellular development and cell survival (PubMed:7862533). Recognizes and binds to the DNA sequence 5'-GCG(T/G)GGGCG-3' (PubMed:7862533, PubMed:17716689, PubMed:25258363). Regulates the expression of numerous target genes, including EPO. Plays an essential role for development of the urogenital system. It has a tumor suppressor as well as an oncogenic role in tumor formation. Function may be isoform-specific: isoforms lacking the KTS motif may act as transcription factors (PubMed:15520190). Isoforms containing the KTS motif may bind mRNA and play a role in mRNA metabolism or splicing (PubMed:16934801). Isoform 1 has lower affinity for DNA, and can bind RNA (PubMed:19123921).
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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