

Rabbit WT1 Polyclonal Antibody | anti-WT1 antibody

WT1 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA326108	Rabbit	Human, Mouse, Rat	ELISA, Immunohistochemistry, Western Blot

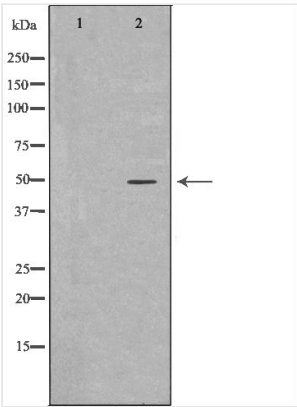
PRODUCT SYNONYMS

WT1; Polyclonal Antibody; WT1 Antibody; WIT 2; WT 1; AWT1; FWT1; GUD; NPHS4; WAGR; Wilms tumor 1; Wilms Tumor; Wilms tumor protein; Wilms' tumor gene; Wilms' tumor protein; WIT2; WT; WT1_HUMAN; WT33; anti-WT1 antibody

PRODUCT SPECIFICATIONS

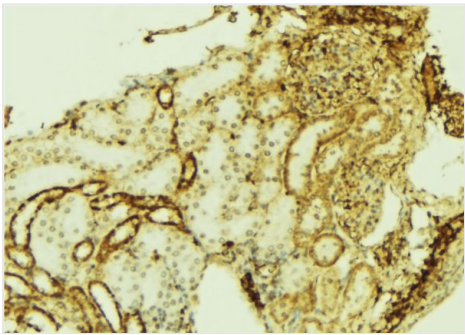
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	WT1 antibody detects endogenous levels of total WT1
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	497
Applicable Applications for anti-WT1 antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human WT1
Subcellular Location	Nucleus. Cytoplasm. Shuttles between nucleus and cytoplasm; Nucleus > Nucleoplasm and Nucleus Speckle.
Tissue Specificity	Expressed in the kidney and a subset of hematopoietic cells.
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



WB (Western Blot)

Western blot analysis of kidney lysate using WT1 antibody. The lane on the left is treated with the antigen-specific peptide.



IHC (Immunohistochemistry)

AAA326108 at 1/100 staining Mouse kidney tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

ADDITIONAL INFORMATION

Related Product Information for anti-WT1 antibody

Description: 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. [provided by RefSeq, Oct 2010]

Function: 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).

Subunit Structure: Homodimer. Interacts with WTIP. Interacts with actively translating polysomes. Detected in nuclear ribonucleoprotein (mRNP) particles. Interacts with HNRNPU via the zinc-finger region. Interacts with U2AF2. Interacts with CITED2 (By similarity). Interacts with ZNF224 via the zinc-finger region. Interacts with WTAP and SRY. Interacts with AMER1. Interacts with RBM4.

Similarity: Binds to DNA motifs with the sequence 5'-GCG(T/G)GGGCG-3' via its C2H2-type zinc fingers. Starting from the N-terminus, the second zinc finger binds to the 3'-GCG motif, the middle zinc finger interacts with the central TGG motif, and the C-terminal zinc finger binds to the 5'-GCG motif. Binds double-stranded target DNA, irrespective of the cytosine methylation status. Has reduced affinity for target DNA where the cytosines have been oxidized to 5-hydroxymethylcytosine, 5-formylcytosine or 5-carboxylcytosine. Belongs to the EGR C2H2-type zinc-finger protein family.

NCBI AND UNIPROT INFORMATION

NCBI GI #	65507714
NCBI GeneID	7490
NCBI Accession #	NP_000369.3
NCBI GenBank Nucleotide #	NM_000378.4
UniProt Accession #	P19544; Q15881; Q16256; Q16575; Q4VXV4; Q4VXV5; Q4VXV6; Q8IYZ5; A8K6S1; B3KSA5
Molecular Weight	Observed: 49 kDa Predicted: 50 kDa

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
NCBI Protein Information	Wilms tumor protein
UniProt Protein Name	Wilms tumor protein
UniProt Gene Name	WT1

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/wt1-antibody-immunohistochemistry-western-blot-elisa/326108>