

**Wilms Tumor Protein Antibody**  
**Rabbit mAb**  
**Catalog # AP90380****Specification**

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**Wilms Tumor Protein Antibody - Product Information**

Application	WB, IHC, FC, ICC
Primary Accession	<a href="#">P19544</a>
Clonality	Monoclonal
<b>Other Names</b>	
GUD; AWT1; WAGR; WT33; NPHS4; WIT-2; EWS-WT1;	
Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	49188 Da

**Wilms Tumor Protein Antibody - Additional Information**

Purification	Affinity-chromatography
Immunogen	A synthesized peptide derived from human Wilms Tumor Protein
Description	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.
Storage Condition and Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

**Wilms Tumor Protein Antibody - Protein Information****Name** WT1**Function**

Transcription factor that plays an important role in cellular development and cell survival (PubMed:<a href="http://www.uniprot.org/citations/7862533" target="\_blank">7862533</a>). Recognizes and binds to the DNA sequence 5'-GCG(T/G)GGGCG-3' (PubMed:<a href="http://www.uniprot.org/citations/17716689" target="\_blank">17716689</a>, PubMed:<a href="http://www.uniprot.org/citations/17716689" target="\_blank">17716689</a>).

href="http://www.uniprot.org/citations/25258363" target="\_blank">25258363</a>, PubMed:<a href="http://www.uniprot.org/citations/7862533" target="\_blank">7862533</a>). 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:<a href="http://www.uniprot.org/citations/15520190" target="\_blank">15520190</a>). Isoforms containing the KTS motif may bind mRNA and play a role in mRNA metabolism or splicing (PubMed:<a href="http://www.uniprot.org/citations/16934801" target="\_blank">16934801</a>). Isoform 1 has lower affinity for DNA, and can bind RNA (PubMed:<a href="http://www.uniprot.org/citations/19123921" target="\_blank">19123921</a>).

#### Cellular Location

Nucleus. Nucleus, nucleolus. Cytoplasm. Note=Isoforms lacking the KTS motif have a diffuse nuclear location (PubMed:15520190). Shuttles between nucleus and cytoplasm. {ECO:0000250, ECO:0000269|PubMed:15520190} [Isoform 4]: Nucleus, nucleoplasm

#### Tissue Location

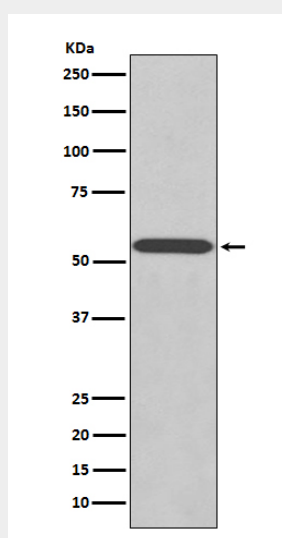
Expressed in the kidney and a subset of hematopoietic cells

### Wilms Tumor Protein Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### Wilms Tumor Protein Antibody - Images



Western blot analysis of WT1 expression in K562 cell lysate.