



## Rabbit Anti-Wilms Tumor Protein antibody

SL6983R

<b>Product Name:</b>	Wilms Tumor Protein
<b>Chinese Name:</b>	肾母细胞瘤蛋白抗体
<b>Alias:</b>	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; WT-1; WT1_HUMAN; WT33.
<b>文献引用</b> <b>PubMed</b> :	<p><b>Specific References(1)</b> SL6983R has been referenced in 1 publications.</p> <p><b>[IF=2.33]</b>Xiao, Tangli, et al. "Rapamycin promotes podocyte autophagy and ameliorates renal injury in diabetic mice." Molecular and Cellular Biochemistry (2014): 1-10.<b>IHC-P;Mouse.</b></p> <p style="text-align: right;">PubMed:24850187</p>
<b>Organism Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>React Species:</b>	Human,Mouse,Rat,Chicken,Dog,Pig,Cow,Sheep,
<b>Applications:</b>	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800Flow-Cyt=1ug/testIF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
<b>Molecular weight:</b>	55kDa
<b>Cellular localization:</b>	The nucleuscytoplasmic
<b>Form:</b>	Lyophilized or Liquid
<b>Concentration:</b>	1mg/ml
<b>immunogen:</b>	KLH conjugated synthetic peptide derived from human Wilms Tumor Protein:301-400/449
<b>Lsotype:</b>	IgG
<b>Purification:</b>	affinity purified by Protein A
<b>Storage Buffer:</b>	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
<b>Storage:</b>	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized

	antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
<b>PubMed:</b>	<a href="#">PubMed</a>
<b>Product Detail:</b>	<p>Transcription factor that plays an important role in cellular development and cell survival. Regulates the expression of numerous target genes, including EPO. Plays an essential role for development of the urogenital system. Recognizes and binds to the DNA sequence 5'-CGCCCCCGC-3'. 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. Isoforms containing the KTS motif may bind mRNA and play a role in mRNA metabolism or splicing. Isoform 1 has lower affinity for DNA, and can bind RNA.</p> <p><b>Function:</b> Transcription factor that plays an important role in cellular development and cell survival. Regulates the expression of numerous target genes, including EPO. Plays an essential role for development of the urogenital system. Recognizes and binds to the DNA sequence 5'-CGCCCCCGC-3'. 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. Isoforms containing the KTS motif may bind mRNA and play a role in mRNA metabolism or splicing. Isoform 1 has lower affinity for DNA, and can bind RNA.</p> <p><b>Subunit:</b> 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. Interacts with ZNF224 via the zinc-finger region. Interacts with WTAP and SRY. Interacts with FAM123B/WTX. Interacts with RBM4.</p> <p><b>Subcellular Location:</b> Nucleus. Nucleus, nucleolus. Cytoplasm. Note=Shuttles between nucleus and cytoplasm. Isoform 1: Nucleus speckle. Isoform 4: Nucleus, nucleoplasm.</p> <p><b>Tissue Specificity:</b> Expressed in the kidney and a subset of hematopoietic cells.</p> <p><b>DISEASE:</b> Defects in WT1 are the cause of Frasier syndrome (FS) [MIM:136680]. FS is characterized by a slowly progressing nephropathy leading to renal failure in adolescence or early adulthood, male pseudohermaphroditism, and no Wilms tumor. As for histological findings of the kidneys, focal glomerular sclerosis is often observed. There is phenotypic overlap with Denys-Drash syndrome. Inheritance is autosomal dominant. Defects in WT1 are the cause of Wilms tumor 1 (WT1) [MIM:194070]. WT is an</p>

embryonal malignancy of the kidney that affects approximately 1 in 10'000 infants and young children. It occurs both in sporadic and hereditary forms.

Defects in WT1 are the cause of Denys-Drash syndrome (DDS) [MIM:194080]. DDS is a typical nephropathy characterized by diffuse mesangial sclerosis, genital abnormalities, and/or Wilms tumor. There is phenotypic overlap with WAGR syndrome and Frasier syndrome. Inheritance is autosomal dominant, but most cases are sporadic.

**Similarity:**

Belongs to the EGR C2H2-type zinc-finger protein family.

Contains 4 C2H2-type zinc fingers.

**SWISS:**

P19544

**Gene ID:**

7490

**Database links:**

[Entrez Gene: 7490](#)Human

[Entrez Gene: 22431](#)Mouse

[Entrez Gene: 24883](#)Rat

[Omim: 607102](#)Human

[SwissProt: P19544](#)Human

[SwissProt: P22561](#)Mouse

[SwissProt: P49952](#)Rat

[Unigene: 591980](#)Human

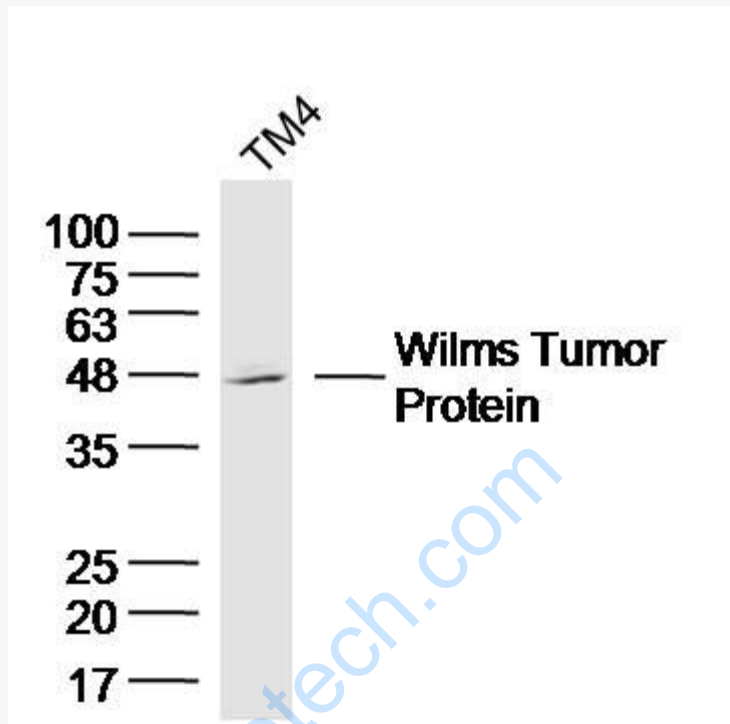
[Unigene: 389339](#)Mouse

[Unigene: 92531](#)Rat

**Important Note:**

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Picture:



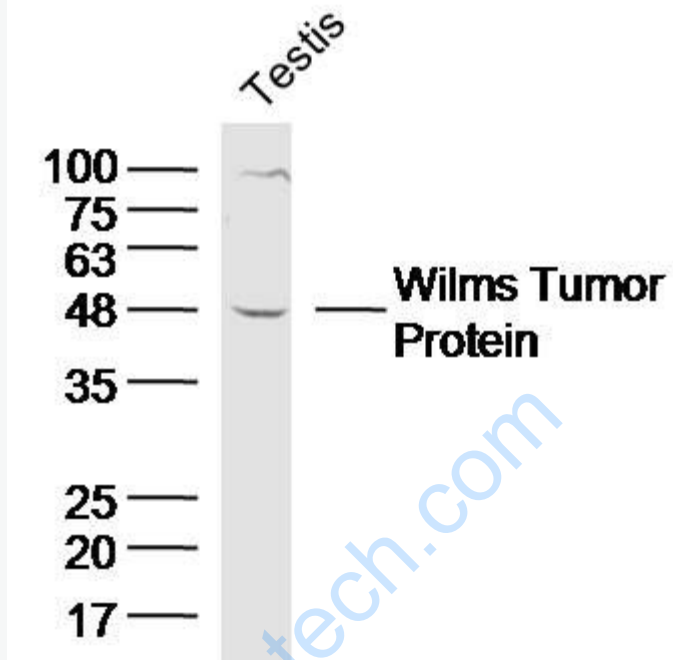
Sample: TM4 Cell (Mouse) Lysate at 40 ug

Primary: Anti-Wilms Tumor Protein (SL6983R) at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 55 kD

Observed band size: 48 kD



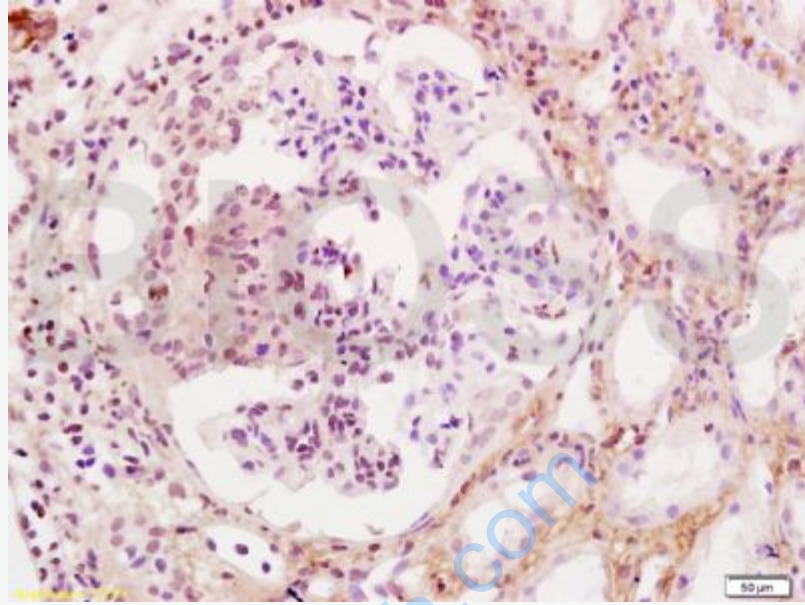
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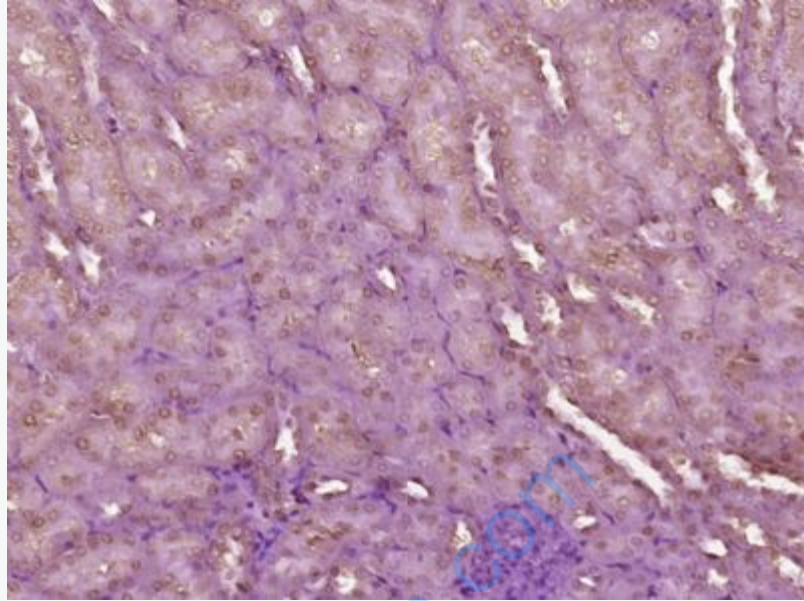


Tissue/cell: human kidney tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;

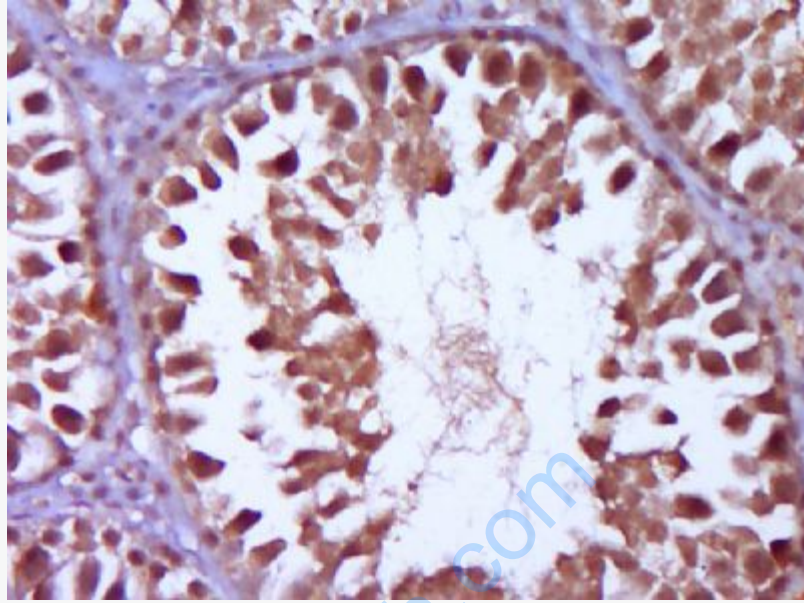
Antigen retrieval: citrate buffer ( 0.01M, pH 6.0 ), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;

Incubation: Anti-WT-1/Wilms Tumor Protein Polyclonal Antibody,

Unconjugated(SL6983R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining

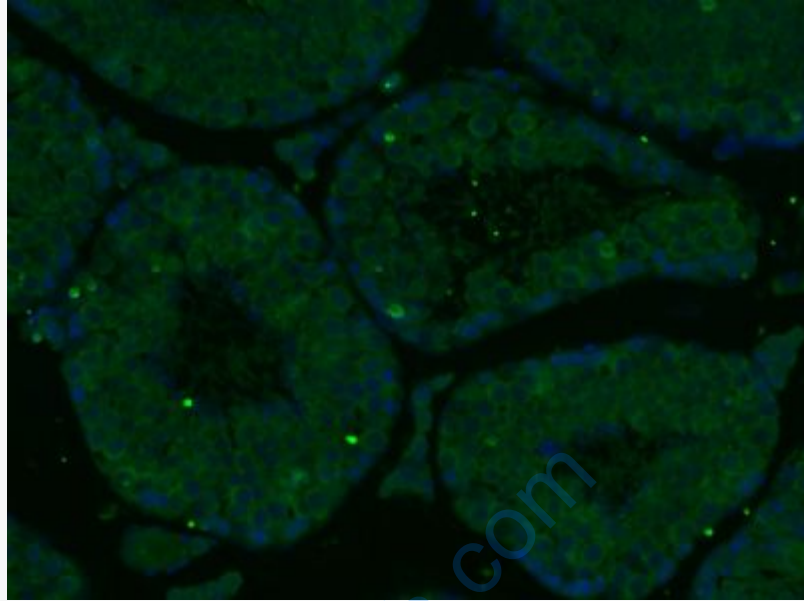


Paraformaldehyde-fixed, paraffin embedded (Mouse kidney); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Wilms Tumor Protein) Polyclonal Antibody, Unconjugated (SL6983R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.

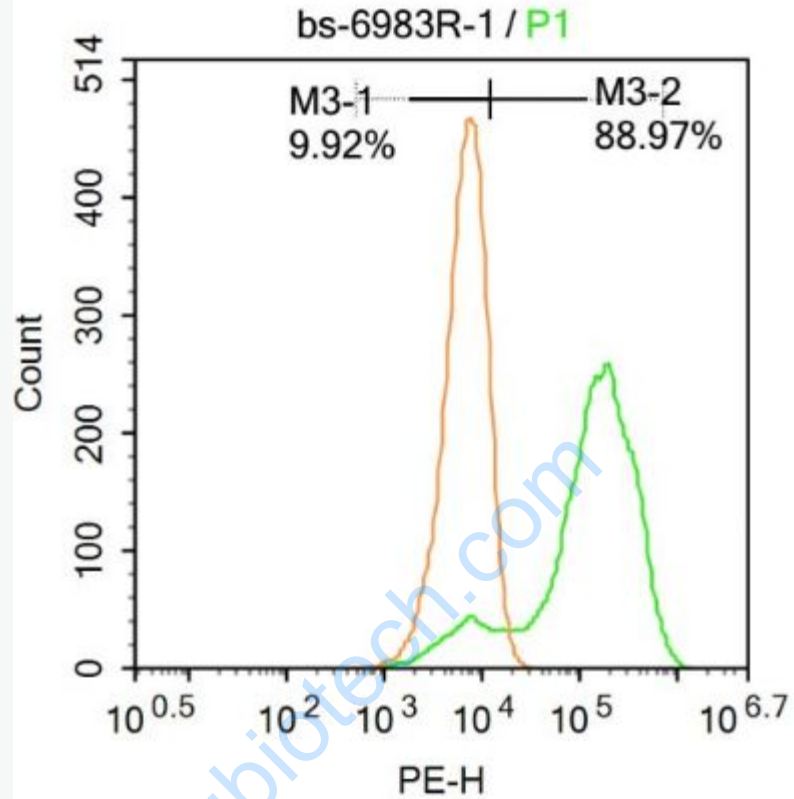


Paraformaldehyde-fixed, paraffin embedded (Rat testis); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Wilms Tumor Protein) Polyclonal Antibody, Unconjugated (SL6983R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.





Paraformaldehyde-fixed, paraffin embedded (Mouse testis); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Wilms Tumor Protein) Polyclonal Antibody, Unconjugated (SL6983R) at 1:400 overnight at 4°C, followed by a conjugated Goat Anti-Rabbit IgG antibody (SL6983R) for 90 minutes, and DAPI for nuclei staining.



Blank control: Molt-4.

Primary Antibody (green line): Rabbit Anti-Wilms Tumor Protein antibody (SL6983R)

Dilution:  $1\mu\text{g} / 10^6$  cells;

Isotype Control Antibody (orange line): Rabbit IgG .

Secondary Antibody : Goat anti-rabbit IgG-AF647

Dilution:  $1\mu\text{g} / \text{test}$ .

Protocol

The cells were fixed with 4% PFA (10min at room temperature) and then permeabilized with 90% ice-cold methanol for 20 min at  $-20^\circ\text{C}$ . The cells were then incubated in 5% BSA to block non-specific protein-protein interactions for 30 min at

at room temperature .Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.

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