Best Tools for immunology Research

Wilms Tumor Protein (PT0302R) PT® Rabbit mAb

Catalog No :	YM8176
Reactivity :	Human; Mouse; Rat;
Applications :	WB;IHC;IF;IP;ELISA
Target :	Wilms' Tumor 1
Fields :	>>Transcriptional misregulation in cancer
Gene Name :	WT1
Protein Name :	Wilms tumor protein (WT33)
Human Gene Id :	7490
Human Swiss Prot No :	P19544
Specificity :	endogenous
Formulation :	PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA
Source :	Monoclonal, rabbit, IgG, Kappa
Dilution :	IHC 1:1000-1:5000;WB 1:1000-1:5000;IF 1:200-1:1000;ELISA 1:5000-1:20000;IP 1:50-1:200;
Purification :	Protein A
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)
Molecularweight :	55kD
Observed Band :	55kD
Background :	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

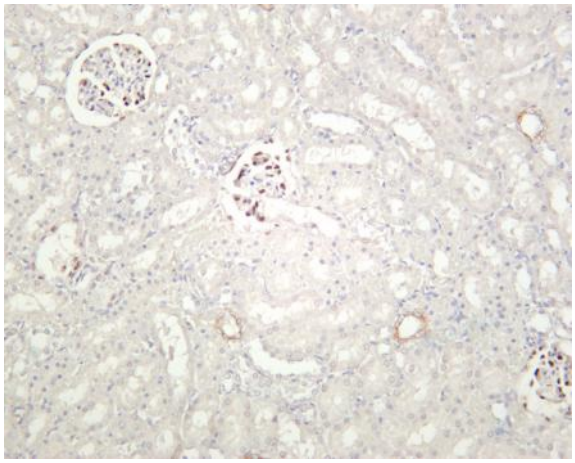
system, and it is mutated in a small subset of patients with Wilms tumor. This gene exhibits complex tissue-specific and polymorphic imprinting pattern, with biallelic, and monoallelic expression from the maternal and paternal alleles in different tissues. Multiple transcript variants have been described. 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],

Function : disease:A chromosomal aberration involving WT1 may be a cause of desmoplastic small round cell tumor (DSRCT). Translocation t(11;22)(p13;q12) with EWSR1.,disease:Defects in WT1 are a cause of hypospadias. Hypospadias is a common malformation in which the urethra opens on the ventral side of the penis. It is considered a complex disorder with both genetic and environmental factors involved in the pathogenesis. Hypospadias can occur alone on an apparently multifactorial basis or as part of syndromes.,disease:Defects in WT1 are a cause of Meacham syndrome [MIM:608978]. Meacham syndrome is a rare sporadically occurring multiple malformation syndrome characterized by male pseudohermaphroditism with abnormal internal female genitalia comprising a uterus and double or septate vagina, complex congenital heart defect and diaphragmatic abnormalities.,disease:Defects in WT1 are a cause of Wilms tum

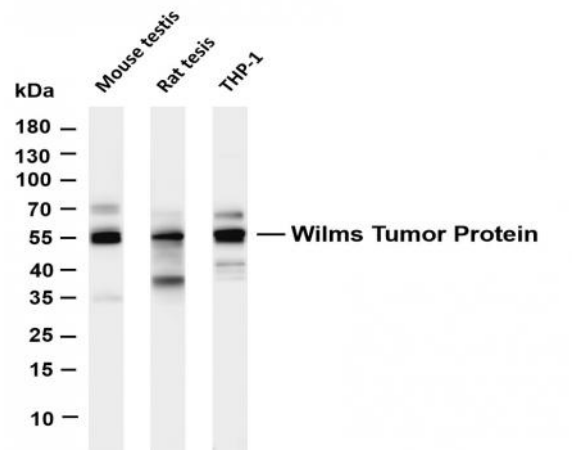
Subcellular Location : Nucleus

Expression : Expressed in the kidney and a subset of hematopoietic cells.

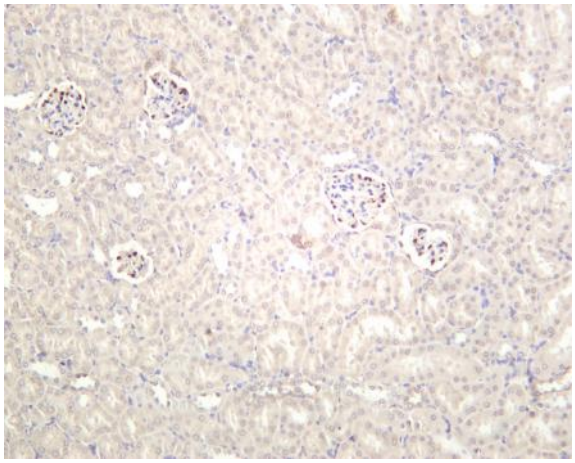
Products Images



Rat kidney was stained with anti-Wilms Tumor Protein (PT0302R) rabbit antibody



Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-Wilms Tumor Protein (PT0302R) antibody. The HRP-conjugated Goat anti-Rabbit IgG(H + L) antibody was used to detect the antibody. Lane 1: Mouse testis Lane 2: Rat testis Lane 3: THP-1 Predicted band size: 55kDa Observed band size: 55kDa



Mouse kidney was stained with anti-Wilms Tumor Protein (PT0302R) rabbit antibody