

## Product datasheet for **TA383351S**

### Wilms Tumor Protein (WT1) Rabbit Polyclonal Antibody

#### Product data:

|                         |  |
|-------------------------|--|
| Product Type:           | Primary Antibodies   |
| Applications:           | ICC/IF, WB   |
| Recommended Dilution:   | WB,1:500 - 1:2000<br>IF,1:50 - 1:200   |
| Reactivity:             | Human, Mouse, Rat  |
| Modifications:          | Unmodified   |
| Host:                   | Rabbit   |
| Isotype:                | IgG  |
| Clonality:              | Polyclonal   |
| Immunogen:              | Recombinant fusion protein containing a sequence corresponding to amino acids 1-302 of human WT1 (NP_001185480.1). |
| Formulation:            | Buffer: PBS with 0.02% sodium azide,50% glycerol,pH7.3.  |
| Concentration:          | lot specific   |
| Purification:           | Affinity purification  |
| Conjugation:            | Unconjugated   |
| Storage:                | Store at -20°C. Avoid freeze / thaw cycles.  |
| Stability:              | Shelf life: one year from despatch.  |
| Predicted Protein Size: | 33kDa/34kDa/47kDa/48kDa/49kDa/55kDa/56kDa  |
| Gene Name:              | Wilms tumor 1  |
| Database Link:          | <a href="#">Entrez Gene 7490 Human P19544</a>  |



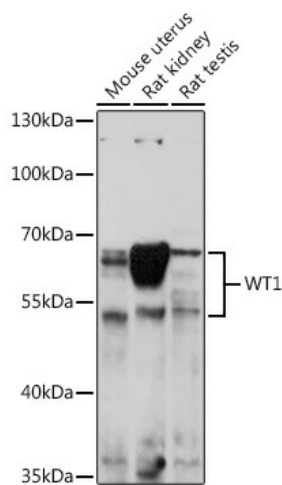
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**Background:**

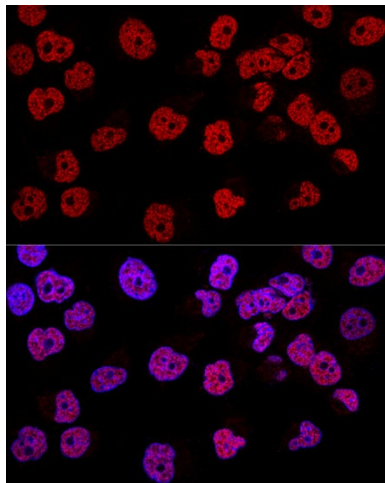
This gene encodes a transcription factor that contains four zinc-finger motifs at the C-terminus and a proline/glutamine-rich DNA-binding domain at the N-terminus. It has an essential role in the normal development of the urogenital system, and it is mutated in a small subset of patients with Wilms tumor. 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.

**Synonyms:**

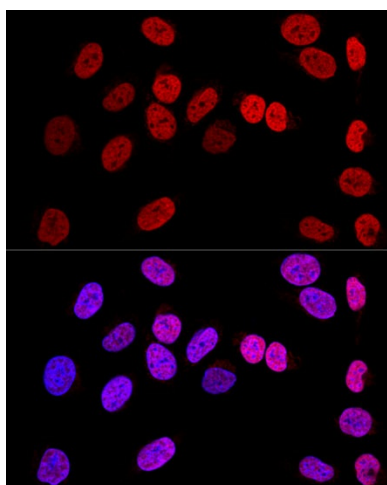
AWT1; GUD; OTTHUMP00000037553; WAGR; WIT-2; WT33

**Product images:**


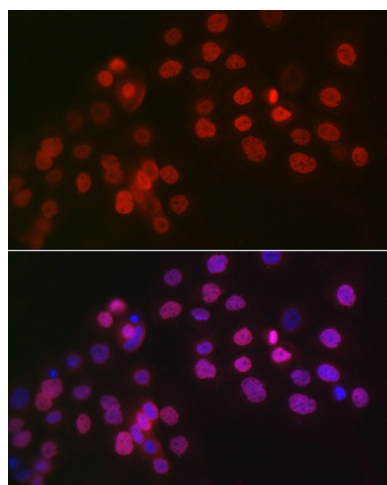
Western blot analysis of extracts of various cell lines, using WT1 antibody ([TA383351]) at 1:1000 dilution. | Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) at 1:10000 dilution. | Lysates/proteins: 25ug per lane. | Blocking buffer: 3% nonfat dry milk in TBST. | Detection: ECL Basic Kit . | Exposure time: 30s.



Confocal immunofluorescence analysis of HeLa cells using WT1 Polyclonal Antibody ([TA383351]) at dilution of 1:200. Blue: DAPI for nuclear staining.



Confocal immunofluorescence analysis of U-2 OS cells using WT1 Polyclonal Antibody ([TA383351]) at dilution of 1:200. Blue: DAPI for nuclear staining.



Immunofluorescence analysis of OVCAR-3 cells using WT1 Rabbit pAb ([TA383351]) at dilution of 1:100 (40x lens). Blue: DAPI for nuclear staining.