

## Recombinant Human WT1, FLAG-tagged

**Cat. No.** WT1-30863TH    **Lot. No.** (See product label)

### SPECIFICATION

|                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>   | Recombinant full length human Wilms Tumor Protein with N-terminal Flag-tag expressed in a baculovirus system; amino acids 1-449 ,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Species</b>            | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Description</b>        | 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 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. |
| <b>Conjugation</b>        | FLAG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Tissue specificity</b> | Expressed in the kidney and a subset of hematopoietic cells.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Form</b>               | Liquid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Purity</b>             | Immunogen affinity purified                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

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|                              |                                                                                                                       |
|------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| <b>Storage buffer</b>        | Preservative: None<br>Constituents: 20% Glycerol, 20mM Tris Cl, 100mM Potassium chloride, 1mM DTT, 0.2mM EDTA, pH 8.0 |
| <b>Storage</b>               | Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.                             |
| <b>Sequence Similarities</b> | Belongs to the EGR C2H2-type zinc-finger protein family. Contains 4 C2H2-type zinc fingers.                           |

## GENE INFORMATION

|                            |                                                                                                                                                                         |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>           | WT1 Wilms tumor 1 [ Homo sapiens ]                                                                                                                                      |
| <b>Official Symbol</b>     | WT1                                                                                                                                                                     |
| <b>Synonyms</b>            | WT1; Wilms tumor 1; GUD; Wilms tumor protein; AWT1; WAGR; WIT 2;                                                                                                        |
| <b>Gene ID</b>             | 7490                                                                                                                                                                    |
| <b>mRNA Refseq</b>         | NM_000378                                                                                                                                                               |
| <b>Protein Refseq</b>      | NP_000369                                                                                                                                                               |
| <b>MIM</b>                 | 607102                                                                                                                                                                  |
| <b>Uniprot ID</b>          | P19544                                                                                                                                                                  |
| <b>Chromosome Location</b> | 11p13                                                                                                                                                                   |
| <b>Pathway</b>             | Regulation of Telomerase, organism-specific biosystem; Transcriptional misregulation in cancers, organism-specific biosystem; Transcriptional misregulation in cancers, |

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conserved biosystem;

**Function**

C2H2 zinc finger domain binding; RNA binding; RNA polymerase II core promoter proximal region sequence-specific DNA binding transcription factor activity involved in positive regulation of transcription; metal ion binding; protein binding;

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