

WT-1-FC recombinant protein

Catalog No :	YD3034
Reactivity :	Human;
Purity :	>90% as determined by SDS-PAGE
Gene Name :	WT1
Protein Name :	Wilms tumor protein (WT33)
Sequence :	Amino acid:392-438,with FC tag.
Human Gene Id :	7490
Human Swiss Prot No :	P19544
Formulation :	Phosphate-buffered solution
Source :	Mammalian cells
Storage Stability :	-15°C to -25°C/1 year(Avoid freeze / thaw cycles)
Function :	<p>Transcription factor that plays an important role in cellular development and cell survival (PubMed:7862533). Recognizes and binds to the DNA sequence 5'-GCG(T/G)GGGCG-3' (PubMed:17716689, PubMed:25258363, PubMed:7862533). 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:15520190). Isoforms containing the KTS motif may bind mRNA and play a role in mRNA metabolism or splicing (PubMed:16934801). Isoform 1 has lower affinity for DNA, and can bind RNA (PubMed:19123921).</p>
Subcellular Location :	<p>Nucleus . Nucleus, nucleolus. Cytoplasm . Note=Isoforms lacking the KTS motif have a diffuse nuclear location (PubMed:15520190). Shuttles between nucleus and cytoplasm. .; [Isoform 1]: Nucleus speckle .; [Isoform 4]: Nucleus, nucleoplasm .</p>
Expression :	Expressed in the kidney and a subset of hematopoietic cells.

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