

WT1 Antibody (Center E361) Blocking peptide
Synthetic peptide
Catalog # BP11964c**Specification**

WT1 Antibody (Center E361) Blocking peptide - Product InformationPrimary Accession [P19544](#)**WT1 Antibody (Center E361) Blocking peptide - Additional Information****Gene ID** 7490**Other Names**

Wilms tumor protein, WT33, WT1

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

WT1 Antibody (Center E361) Blocking peptide - Protein Information**Name** WT1**Function**

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:7862533, PubMed:17716689, PubMed:25258363). 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).

Cellular Location

Nucleus. Nucleus, nucleolus. Cytoplasm. Note=Isoforms lacking the KTS motif have a diffuse

nuclear location (PubMed:15520190). Shuttles between nucleus and cytoplasm. {ECO:0000250, ECO:0000269|PubMed:15520190} [Isoform 4]: Nucleus, nucleoplasm

Tissue Location

Expressed in the kidney and a subset of hematopoietic cells

WT1 Antibody (Center E361) Blocking peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

WT1 Antibody (Center E361) Blocking peptide - Images**WT1 Antibody (Center E361) Blocking peptide - 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' 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. [provided by RefSeq].

WT1 Antibody (Center E361) Blocking peptide - References

Sitaram, R.T., et al. Br. J. Cancer 103(8):1255-1262(2010) Dohi, S., et al. Anticancer Res. 30(8):3187-3192(2010) Rocquain, J., et al. BMC Cancer 10, 401 (2010) :Wagner, K.D., et al. J. Cell. Sci. 116 (PT 9), 1653-1658 (2003) :Mitsuya, K., et al. Hum. Mol. Genet. 6(13):2243-2246(1997)