ARG66514
anti-WT1 / Wilms tumor 1 antibody

Package: 100 µl
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody recognizes WT1 / Wilms tumor 1
Tested Reactivity	Hu
Tested Application	IHC-P
Host	Mouse
Clonality	Monoclonal
Isotype	IgG2b, kappa
Target Name	WT1 / Wilms tumor 1
Species	Human
Immunogen	Synthetic peptide derived from Human WT1 / Wilms tumor 1.
Conjugation	Un-conjugated
Alternate Names	WIT-2; EWS-WT1; GUD; WAGR; AWT1; Wilms tumor protein; NPHS4; WT33

Application Instructions

Application table

Application	Dilution
IHC-P	1:100 - 1:500

Application Note: IHC-P: Antigen Retrieval: Tris/EDTA buffer (pH 8.0) was used.
* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

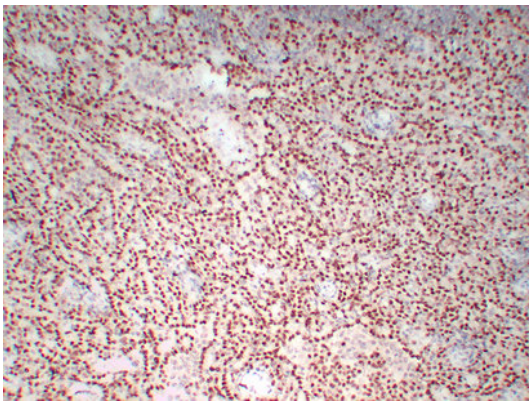
Properties

Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	PBS, 0.02% Sodium azide, 50% Glycerol and 0.5% BSA.
Preservative	0.02% Sodium azide
Stabilizer	50% Glycerol and 0.5% BSA
Concentration	1 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

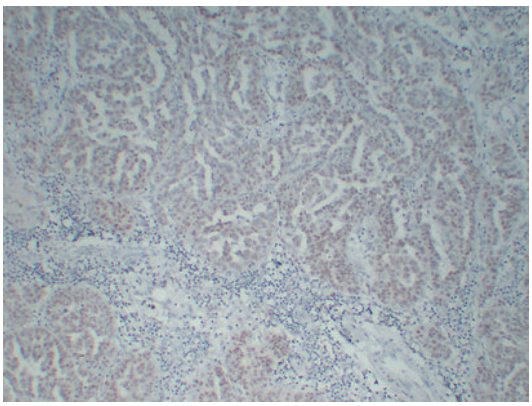
Gene Symbol	WT1
Gene Full Name	Wilms tumor 1
Background	This gene encodes a transcription factor that contains four zinc-finger motifs at the C-terminus and a proline/glutamine-rich DNA-binding domain at the N-terminus. It has an essential role in the normal development of the urogenital system, and 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	Transcription factor that plays an important role in cellular development and cell survival. Regulates the expression of numerous target genes, including EPO. Plays an essential role for development of the urogenital system. Recognizes and binds to the DNA sequence 5'-CGCCCCCGC-3'. 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. Isoforms containing the KTS motif may bind mRNA and play a role in mRNA metabolism or splicing. Isoform 1 has lower affinity for DNA, and can bind RNA. [UniProt]
Calculated Mw	49 kDa
Cellular Localization	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. [UniProt]

Images



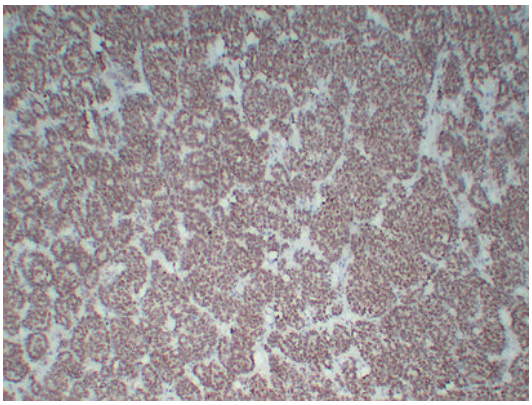
ARG66514 anti-WT1 / Wilms tumor 1 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human mesothelioma stained with ARG66514 anti-WT1 / Wilms tumor 1 antibody at 1:200 (4°C, overnight). Antigen Retrieval: Tris/EDTA buffer (pH 8.0) was used.



ARG66514 anti-WT1 / Wilms tumor 1 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human ovarian serous cystadenocarcinoma stained with ARG66514 anti-WT1 / Wilms tumor 1 antibody at 1:200 (4°C, overnight). Antigen Retrieval: Tris/EDTA buffer (pH 8.0) was used.



ARG66514 anti-WT1 / Wilms tumor 1 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human Wilms' tumor stained with ARG66514 anti-WT1 / Wilms tumor 1 antibody at 1:200 (4°C, overnight). Antigen Retrieval: Tris/EDTA buffer (pH 8.0) was used.