

Anti-Wilms Tumor Protein Antibody [PSH23-02]

HA724341



Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human
Applications:	IHC-P
Molecular Wt:	Predicted band size: 49 kDa
Clone number:	PSH23-02

Description: The WT1 gene located at chromosome 11p13 codes for a transcription factor, a DNA-binding nucleoprotein, 52-62 kDa, that plays a role primarily in the development of genitourinary organs. Although originally identified as a tumour suppressor gene, a variety neoplasms are associated with WT1 over expression. Over expression of both wild-type and mutant WT1 has been reported. Among epithelial tumours, nuclear WT1 is strongly expressed in ovarian serous carcinoma (97% of the tumours, usually a widespread reaction), peritoneal serous carcinoma, ovarian transitional carcinoma, and about half of ovarian endometrioid carcinoma. Also metanephric adenoma is positive. Limited nuclear WT1 expression has been documented in a small percentage of various others carcinomas such as ovarian clear cell carcinoma, uterine papillary serous carcinoma, uterine endometrioid carcinoma, renal cell carcinoma (chromophobic and papillary), breast carcinoma, lung carcinoma, and pancreaticobiliary carcinoma. Among nonepithelial tumours, nuclear WT1 is strongly expressed in the large majority of malignant mesothelioma and sex cord-stromal tumours. Nuclear WT1 has moreover been demonstrated in Wilms' tumour (about 50% of the cases, involving epithelial, stromal and blastemal elements), malignant rhabdoid tumour, adenomatoid tumour, endometrial stromal sarcoma, uterine leiomyosarcoma, mixed mullerian tumour, as well as in some malignant lymphomas (lymphoblastic and Burkitt's lymphoma), and most cases of acute leukaemia. WT1 is particularly used for distinguishing malignant mesothelioma and ovarian serous carcinoma from nonserous carcinomas. As for malignant mesothelioma, calretinin and WT1 are superior to cytokeratin 5/6, N-cadherin and thrombomodulin. WT1 is also applicable for the differential diagnostic of small cell childhood tumours.

Positive control: Human Testis, Human Ovarian borderline serous carcinoma, Human Kidney, Human Mesothelioma.

Subcellular location: Nucleus, Cytoplasm, Nucleus speckle.

Database links: SwissProt: P19544 Human

Recommended Dilutions:
IHC-P 1:200-1:1,000

Storage Buffer: 1*PBS (pH7.4), 0.1% BSA, 40% Glycerol, 0.2% Procure 950.

Storage Instruction: Shipped at 4℃. Store at +4℃ short term (1-2 weeks). Store at -20℃ long term.

Purity: Protein A affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

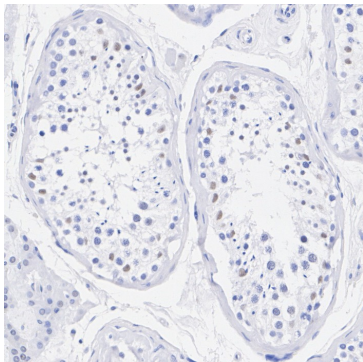
Technical:0086-571-89986345

Service mail:support@huabio.cn

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Applications:WB=Western blot IHC-P=Immunohistochemistry (paraffin) IF-Cell=Immunofluorescence (Cell) IF-Tissue=Immunofluorescence (Tissue) FC=Flow cytometry IP=Immunoprecipitation

Images

**Fig1:** Application: Immunohistochemistry (IHC-P)

Species: Human

Tissue: Testis

Sample: Paraffin-embedded section

Antigen retrieval: Heat-mediated, Tris-EDTA buffer (pH 9.0), 20 minutes at 95°C.

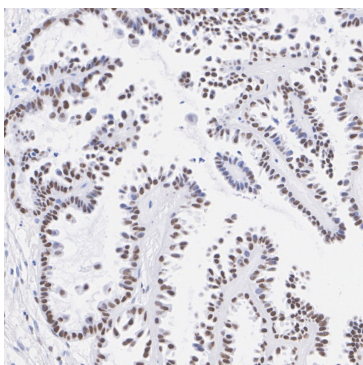
Wash buffer: 1× TBST

Endogenous peroxidase blocking: 3% H₂O₂, 10 minutes at room temperature.

Blocking: 1% BSA + 10% normal goat serum, 10 minutes at room temperature.

Primary antibody: HA724341, 1/200, 1 hour at room temperature.

Secondary antibody: HA1119, 20 minutes at room temperature.

**Fig2:** Application: Immunohistochemistry (IHC-P)

Species: Human

Tissue: Ovarian borderline serous carcinoma

Sample: Paraffin-embedded section

Antigen retrieval: Heat-mediated, Tris-EDTA buffer (pH 9.0), 20 minutes at 95°C.

Wash buffer: 1× TBST

Endogenous peroxidase blocking: 3% H₂O₂, 10 minutes at room temperature.

Blocking: 1% BSA + 10% normal goat serum, 10 minutes at room temperature.

Primary antibody: HA724341, 1/1,000, 1 hour at room temperature.

Secondary antibody: HA1119, 20 minutes at room temperature.

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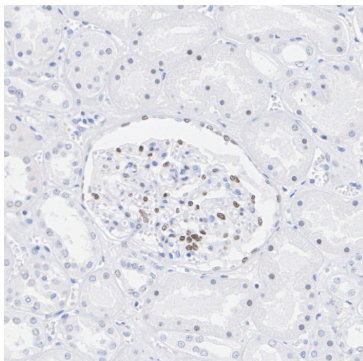


Fig3: Application: Immunohistochemistry (IHC-P)

Species: Human

Tissue: Kidney

Sample: Paraffin-embedded section

Antigen retrieval: Heat-mediated, Tris-EDTA buffer (pH 9.0), 20 minutes at 95°C.

Wash buffer: 1× TBST

Endogenous peroxidase blocking: 3% H₂O₂, 10 minutes at room temperature.

Blocking: 1% BSA + 10% normal goat serum, 10 minutes at room temperature.

Primary antibody: HA724341, 1/200, 1 hour at room temperature.

Secondary antibody: HA1119, 20 minutes at room temperature.

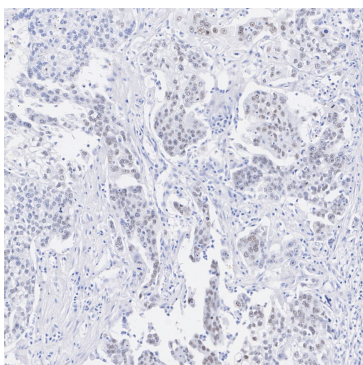


Fig4: Application: Immunohistochemistry (IHC-P)

Species: Human

Tissue: Mesothelioma

Sample: Paraffin-embedded section

Antigen retrieval: Heat-mediated, Tris-EDTA buffer (pH 9.0), 20 minutes at 95°C.

Wash buffer: 1× TBST

Endogenous peroxidase blocking: 3% H₂O₂, 10 minutes at room temperature.

Blocking: 1% BSA + 10% normal goat serum, 10 minutes at room temperature.

Primary antibody: HA724341, 1/200, 1 hour at room temperature.

Secondary antibody: HA1119, 20 minutes at room temperature.

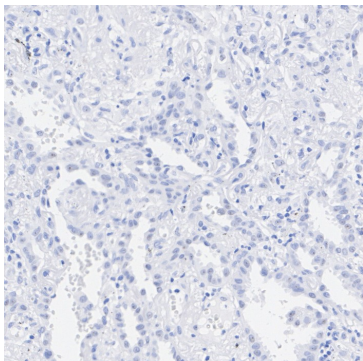


Fig5: Application: Immunohistochemistry (IHC-P)

Species: Human

Tissue: Lung adenocarcinoma (Negative control)

Sample: Paraffin-embedded section

Antigen retrieval: Heat-mediated, Tris-EDTA buffer (pH 9.0), 20 minutes at 95°C.

Wash buffer: 1× TBST

Endogenous peroxidase blocking: 3% H₂O₂, 10 minutes at room temperature.

Blocking: 1% BSA + 10% normal goat serum, 10 minutes at room temperature.

Primary antibody: HA724341, 1/200, 1 hour at room temperature.

Secondary antibody: HA1119, 20 minutes at room temperature.

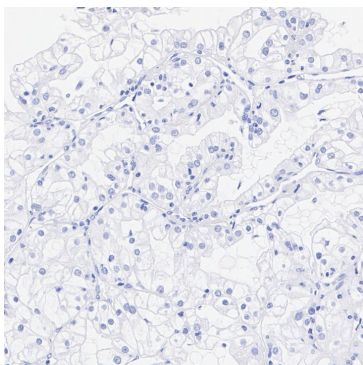


Fig6: Application: Immunohistochemistry (IHC-P)

Species: Human

Tissue: Clear cell renal cell carcinoma (Negative control)

Sample: Paraffin-embedded section

Antigen retrieval: Heat-mediated, Tris-EDTA buffer (pH 9.0), 20 minutes at 95°C.

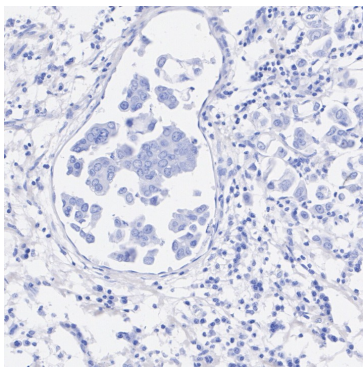
Wash buffer: 1× TBST

Endogenous peroxidase blocking: 3% H₂O₂, 10 minutes at room temperature.

Blocking: 1% BSA + 10% normal goat serum, 10 minutes at room temperature.

Primary antibody: HA724341, 1/200, 1 hour at room temperature.

Secondary antibody: HA1119, 20 minutes at room temperature.

**Fig7:** Application: Immunohistochemistry (IHC-P)

Species: Human

Tissue: Breast carcinoma (Negative control)

Sample: Paraffin-embedded section

Antigen retrieval: Heat-mediated, Tris-EDTA buffer (pH 9.0), 20 minutes at 95°C.

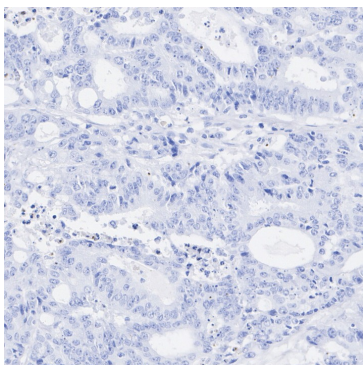
Wash buffer: 1× TBST

Endogenous peroxidase blocking: 3% H₂O₂, 10 minutes at room temperature.

Blocking: 1% BSA + 10% normal goat serum, 10 minutes at room temperature.

Primary antibody: HA724341, 1/200, 1 hour at room temperature.

Secondary antibody: HA1119, 20 minutes at room temperature.

**Fig8:** Application: Immunohistochemistry (IHC-P)

Species: Human

Tissue: Colorectal carcinoma (Negative control)

Sample: Paraffin-embedded section

Antigen retrieval: Heat-mediated, Tris-EDTA buffer (pH 9.0), 20 minutes at 95°C.

Wash buffer: 1× TBST

Endogenous peroxidase blocking: 3% H₂O₂, 10 minutes at room temperature.

Blocking: 1% BSA + 10% normal goat serum, 10 minutes at room temperature.

Primary antibody: HA724341, 1/1,000, 1 hour at room temperature.

Secondary antibody: HA1119, 20 minutes at room temperature.

Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

Background References

1. Kirschner KM et al. WT1 in Adipose Tissue: From Development to Adult Physiology. Front Cell Dev Biol. 2022 Mar
2. Ni Z et al. WT1 directs normal progesterone receptor-chromatin binding essential for uterine receptivity at peri-implantation. Proc Natl Acad Sci U S A. 2025 Jul

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