

Mouse anti-Human WT1 Monoclonal Antibody | anti-WT1 antibody

WT1

CATALOG # AAA59246	HOST Mouse	REACTIVITY Human
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PRODUCT SYNONYMS

WT1; Monoclonal Antibody; anti-WT1 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG1/K
Clone Number	6F-H2
Form/Format	WT1 is a mouse monoclonal antibody derived from cell culture supernatant that is concentrated, dialyzed, filter sterilized and diluted in buffer pH 7.5, containing BSA and sodium azide as a preservative.
Control	Malignant Mesothelioma, Kidney, Testicle, Fallopian Tube
Localization	Nuclear
Intended Use	This antibody is intended for use in Immunohistochemical applications on formalin-fixed paraffin-embedded tissues (FFPE), frozen tissue sections and cell preparations. Interpretation of results should be performed by a qualified medical professional.
Immunogen	Recombinant protein corresponding to amino acids 1-181 of human WT1.
Reactivity Note	Paraffin, Frozen
Precautions	1. For professional users only. Results should be interpreted by a qualified medical professional. 2. This product contains <0.1% sodium azide (NaN₃) as a preservative. Ensure proper handling procedures are used with this reagent. 3. Always wear personal protective equipment such as laboratory coat, goggles and gloves when handling reagents. 4. Dispose of unused solution with copious amount of water. 5. Do not ingest reagent. If reagent is ingested, seek medical advice immediately. 6. Avoid contact with eyes. If contact occurs, flush with large quantities of water. 7. Follow safety precautions of the heating device used for epitope retrieval (TintoRetriever Pressure Cooker or similar). 8. For additional safety information refer to Safety Data Sheet for this product. 9. For complete recommendations for handling biological specimens, please refer to the CDC document, "Guidelines for Safe Work Practices in Human and AMDL" (Please inquire).
Specimen Preparation Paraffin sections	The antibody can be used on formalin-fixed paraffin-embedded (FFPE) tissue sections. Ensure tissue undergoes appropriate fixation for best results. Pre-treatment of tissues with heat-induced epitope retrieval (HIER) is recommended using ImmunoDNA Retriever with Citrate (please inquire), ImmunoDNA Retriever with EDTA (please inquire) or ImmunoDNA Digestor (please inquire). Refer to image for complete protocol. Tissue should remain hydrated via use of Immuno/DNA Washer solutions.
Frozen sections and cell preparations	The antibody can be used for labeling acetone-fixed frozen sections and acetone-fixed cell preparations.

Staining Procedure	1. Cut and mount 3-5 micron formalin-fixed paraffin-embedded tissues on positively charged slides such as Bio SB Hydrophilic Plus Slides (please inquire). 2. Air dry for 2 hours at 58° C. 3. Deparaffinize, dehydrate and rehydrate tissues. 4. Subject tissues to heat induced epitope retrieval (HIER) using a suitable retrieval solution such as ImmunoDNA Retriever with Citrate (please inquire) or EDTA (please inquire). 5. Any of three heating methods may be used: a. TintoRetriever Pressure Cooker or Equivalent Place tissues/slides in a staining dish or coplin jar containing the ImmunoDNA Retriever with Citrate or EDTA, and place on trivet in the pressure cooker. Add 1-2 inches of distilled water to the pressure cooker and turn heat to high. Incubate for 15 minutes. Open and immediately transfer slides to room temperature. b. TintoRetriever PT Module or Water Bath Method Place tissues/slides in a pre-warmed staining dish or coplin jar containing the ImmunoDNA Retriever with Citrate or EDTA at 95°-99° C. Incubate for 30-60 minutes. c. Conventional Steamer Method Place tissues/slides in a pre-warmed staining dish or coplin jar containing the ImmunoDNA Retriever with Citrate or EDTA in a steamer, cover and steam for 30-60 minutes. 6. After heat treatment, transfer slides in ImmunoDNA Retriever with Citrate or EDTA to room temperature and let stand for 15-20 minutes. 7. For manual staining, perform antibody incubation at ambient temperature. For automated staining methods, perform antibody incubation according to instrument manufacturer's instructions. 8. Wash slides with ImmunoDNA washer or DI water. 9. Continue IHC staining protocol. Wash slides between each step with ImmunoDNA washer solution.
Mounting Protocols	For detailed instructions using biodegradable permanent mounting media such as XyGreen PermaMunter (please inquire) or organic solvent based resin such as PermaMunter (please inquire).
Product Limitations	Due to inherent variability present in immunohistochemical procedures (including fixation time of tissues, dilution factor of antibody, retrieval method utilized and incubation time), optimal performance should be established through the use of positive and negative controls. Results should be interpreted by a qualified medical professional.
Preparation and Storage	Store at 2 to 8 degree C in the dark.

IMAGES

Performance Characteristics

Normal Tissues	
Positive (+)	
Kidney	Spleen
Sertoli Cells of Testes	Decidual Cells of Uterus
Granulosa Cells of Ovary	Myelocytic Cells
Blood Vessels of Lung Alveoli	
Negative (-)	
Mononuclear Cells	Peripheral CD34 Progenitor Cells
Abnormal Tissues	
Positive (+)	
Wilms' Tumors (Epithelial and Blastemal Components)	
Malignant Mesothelioma	
Acute Leukemias	
Leukemia Blast Cells	

Abbreviated Immunohistochemical Protocol

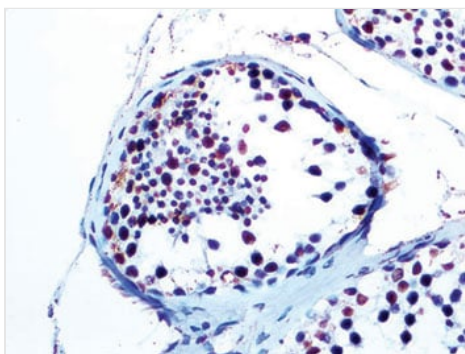
Step	ImmunoDetector AP/HRP	PolyDetector AP/HRP	PolyDetector Plus HRP
Peroxidase/AP Blocker	5 min.	5 min.	5 min.
Primary Antibody	30-60 min.	30-60 min.	30-60 min.
1st Step Detection	10 min.	30-45 min.	15 min.
2nd Step Detection	10 min.	Not Applicable	15 min.
Substrate-Chromogen	5-10 min.	5-10 min.	5-10 min.
Counterstain / Coverslip	Varies	Varies	Varies

Application Data

Abbreviated Immunohistochemical Protocol

Application Data

Performance Characteristics



IHC (Immunohistochemistry)

WT1 Antibody Immunohistochemistry on a FFPE Testicular Cancer Tissue

Antibody Type	Dilution	Volume/QTY
Prediluted	Ready-To-Use	3.0 ml
Prediluted	Ready-To-Use	7.0 ml
Prediluted	Ready-To-Use	15.0 ml
Concentrated	1:10-1:50	0.1 ml
Concentrated	1:10-1:50	0.5 ml
Concentrated	1:10-1:50	1.0 ml
Control Slides		5

Dilution Info

ADDITIONAL INFORMATION

Related Product Information for anti-WT1 antibody	Summary and Explanation : Wilms' Tumor Protein (WT1) is a suppressor gene located on Chromosome 11p13. Mutations of the WT1 gene on Chromosome 11 are observed in approximately 20% of Wilms tumors. At least half of the Wilms tumors with mutations in WT1 also carry mutations in CTNNB1, the gene encoding the proto-oncogene beta-catenin. Wilms' tumor is a neoplasm of the kidneys that typically occurs in children. It is also known as a Nephroblastoma. WT1 has been identified in proliferative mesothelial cells, Malignant Mesothelioma, Ovarian Cystadenocarcinoma, Gonadoblastoma, Nephroblastoma and Desmoplastic Small Round Cell Tumor. Lung Adenocarcinomas rarely stain positive with this antibody.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	65508004
NCBI GeneID	7490
NCBI Accession #	NP_077744.3
NCBI GenBank Nucleotide #	NM_024426.3
UniProt Accession #	Q4VXV5; Q15881; Q16256; Q16575; Q4VXV4; Q4VXV6; Q8IYZ5; A8K6S1; P19544; Q6LBI3; Q6LD16; Q6PI38; A0FJ57; A0FJ58
NCBI Official Full Name	Wilms tumor protein isoform D
NCBI Official Synonym Full Names	Wilms tumor 1
NCBI Official Symbol	WT1
NCBI Official Synonym Symbols	GUD; AWT1; WAGR; WT33; NPHS4; WIT-2
NCBI Protein Information	Wilms tumor protein; OTTHUMP00000037553; OTTHUMP00000037554; OTTHUMP00000037555; OTTHUMP00000037556; OTTHUMP00000238018
UniProt Protein Name	Wilms tumor protein
UniProt Gene Name	WT1
UniProt Entry Name	WT1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.