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DATA SHEET

Mouse Anti-Wilm's Tumor (WT1) [6F-H2]: MC0361, MC0361RTU7

Intended Use: For Research Use Only

Description: Wilms' tumor protein is a transcriptional factor that is encoded by the WT1 gene in human. WT1 contains four zinc-finger motifs at the C-terminus and a proline/glutamine-rich DNA-binding domain at the N-terminus. Wilm's tumor is associated with mutations of WT1, a zinc-finger transcription factor that is essential for the development of the metanephric kidney and the urogenital system. The WT1 gene is normally expressed in fetal kidney and mesothelium, and its expression has been suggested as a marker for Wilm's tumor and mesothelioma. WT1 protein has been identified in proliferative mesothelial cells, malignant mesothelioma, ovarian carcinoma, gonadoblastoma, nephroblastoma, and desmoplastic small round cell tumor. Lung adenocarcinomas rarely stain positive with this antibody. The antibody reacts with all isoforms of the full-length WT1 and also identifies WT1 lacking exon 2-encoded amino acids, frequently found in subsets of sporadic Wilm's tumor, a sporadic and familial pediatric kidney tumor, is genetically heterogeneous.

Specifications

Clone:	6F-H2
Source:	Mouse
Isotype:	IgG1k
Reactivity:	Human, mouse, rat
Immunogen:	Recombinant fragment corresponding to human WT1 N-terminal 1-181 amino acids
Localization:	Nucleus
Formulation:	Antibody in PBS pH7.4, containing BSA and ≤ 0.09% sodium azide (NaN3)
Storage:	Store at 2°- 8°C
Applications:	IHC, Flow Cyt., ICC/IF

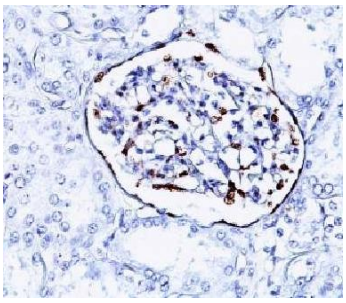
Package:

Description	Catalog No.	Size
Wilm's Tumor (WT1) Concentrated	MC0361	1 ml
Wilm's Tumor (WT1) Prediluted	MC0361RTU7	7 ml

IHC Procedure

Positive Control Tissue:	Mesothelioma
Concentrated Dilution:	50-200
Pretreatment:	Tris EDTA pH9.0, 15 minutes Pressure Cooker or 30-60 minutes water bath at 95°-99°C
Incubation Time and Temp:	30-60 minutes @ RT
Detection:	Refer to the detection system manual

* Result should be confirmed by an established diagnostic procedure.



FFPE human fetal kidney stained with anti-WT1 using DAB

References:

1. Overexpression and potential targeting of the oncofoetal antigen 5T4 in malignant pleural mesothelioma. Al-Taei S, et al. Lung Cancer. Aug;77(2):312-8, 2012. A Murine Model of K-RAS and β-Catenin Induced Renal Tumors Expresses High Levels of E2F1 and Resembles Human Wilms Tumor. Yi Y, et al. J Urol. Dec;194(6):1762-70, 2015.
2. Immunohistochemical expression of GLUT1 and its correlation with unfavorable histology and TP53 codon 72 polymorphism in Wilms tumors. Rakheja D, et al. Pediatr Dev Pathol. 2012 Jul-Aug;15(4):286-92, 2012.

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