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36-1810: Monoclonal Antibody to Wilm's Tumor 1 (WT1) (Wilm's Tumor & Mesothelial Marker)(Clone: WT1/857)

Clonality: Monoclonal **Clone Name:** WT1/857 Application: IHC

Reactivity: Human, Rat

Gene: WT1 Gene ID: 7490 **Uniprot ID:** P19544 Format: **Purified Alternative Name:** WT1

Isotype: Mouse IgG1, kappa

Immunogen Information: Recombinant human WT1 protein

Description

Recognizes a 47-55kDa-tumor suppressor protein, identified as Wilm's Tumor (WT1) protein. 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 tumors. WT1, a sporadic and familial pediatric kidney tumor, is genetically heterogeneous. 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. WT1 protein expression in mesothelial cells has become a reliable marker for the diagnosis of mesotheliomas.

Product Info

Amount: 100 µg

Purification: Affinity Chromatography

100 µg in 500 µl PBS containing 0.05% BSA and 0.05% sodium azide. Sodium azide is highly Content:

Store the antibody at 4°C; stable for 6 months. For long-term storage; store at -20°C. Avoid Storage condition:

repeated freeze and thaw cycles.

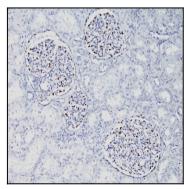
Application Note

Immunohistochemistry (Formalin-fixed) (1-2ug/ml for 30 minutes at RT)(Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes);

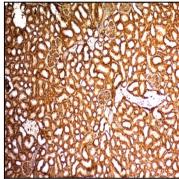


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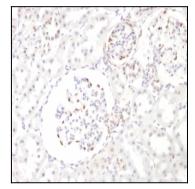
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Formalin-fixed, paraffin-embedded human Fetal Kidney stained with WT1 Monoclonal Antibody (WT1/857).



Formalin-fixed, paraffin-embedded Mouse Kidney stained with WT1 Monoclonal Antibody (WT1/857).



Formalin-fixed, paraffin-embedded Rat kidney stained with WT1 Monoclonal Antibody (WT1/857).