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36-3376: Anti-Wilm's Tumor 1 (WT1) (Wilm's Tumor & Mesothelial Marker) Monoclonal Antibody(Clone: rWT1/857)

Clonality :	Monoclonal
Clone Name :	rWT1/857
Application :	IHC
Reactivity :	Human, Mouse, Rat
Gene :	WT1
Gene ID :	7490
Uniprot ID :	P19544
Alternative Name :	WT1; AWT1; FWT1; GUD; NPHS4; WAGR; Wilms tumor 1
Isotype :	Mouse IgG1, kappa
Immunogen Information :	Recombinant full-length 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 sÂµggested 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 :	20 µg / 100 µg
Content :	200 µg/ml of recombinant MAb Purified by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
Storage condition :	Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous.

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&degC followed by cooling at RT for 20 minutes);

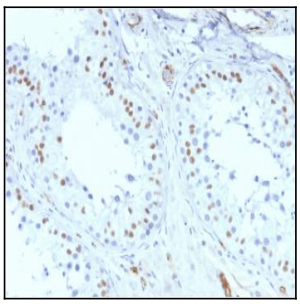

Fig. 1: Formalin-fixed, paraffin-embedded human Testis stained with Wilm's Tumor Mouse Recombinant Monoclonal Antibody (rWT1/857).

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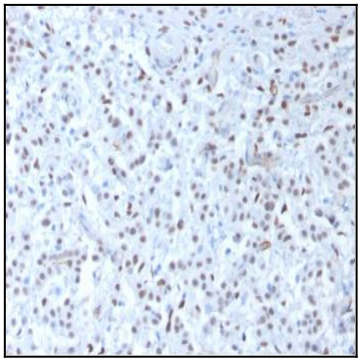

Fig. 2: Formalin-fixed, paraffin-embedded human Mesothelioma stained with Wilm's Tumor Mouse Recombinant Monoclonal Antibody (rWT1/857).

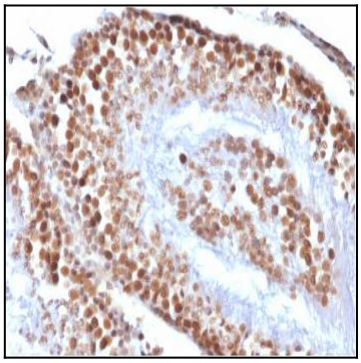

Fig. 3: Formalin-fixed, paraffin-embedded Rat Testis stained with Wilm's Tumor Mouse Recombinant Monoclonal Antibody (rWT1/857).

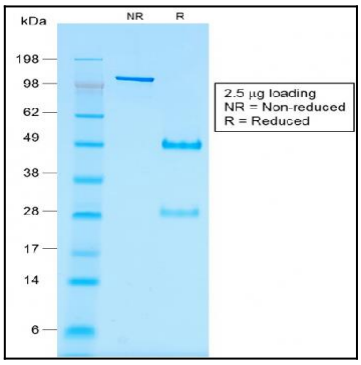

Fig. 4: SDS-PAGE Analysis Purified Wilm's Tumor Mouse Recombinant Monoclonal Antibody (rWT1/857). Confirmation of Purity and Integrity of Antibody

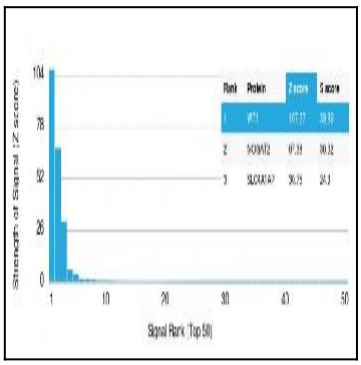

Fig. 5: Analysis of Protein Array containing more than 19,000 full-length human proteins using Wilm's Tumor Mouse Recombinant Monoclonal Antibody (rWT1/857). Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProtTM array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProtTM are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.

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