Recombinant Wilm’s Tumor 1 (WT1) (Wilm’s Tumor & Mesothelial Marker) Antibody

Mouse Monoclonal Antibody [Clone rWT1/857]

Catalog No	Format	Size
7490-MSM6-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
7490-MSM6-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
7490-MSM6-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

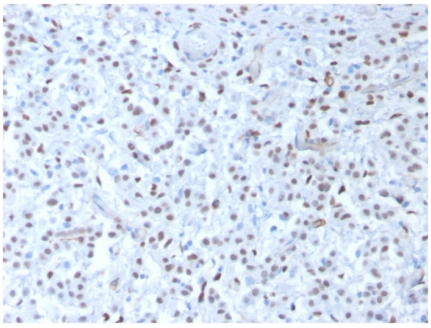
Applications	Tested Dillution	Note
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes
Western Blot (WB)	2-4ug/ml	

Product Details

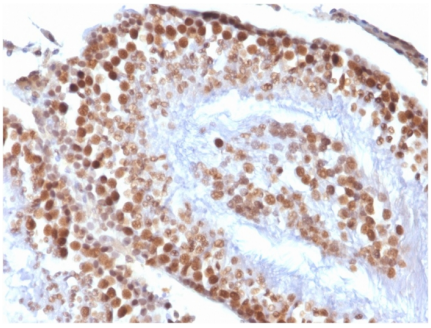
Clone	rWT1/857
Gene Name	WT1
Immunogen	Recombinant full-length human WT1 protein
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgG1 / Kappa
Mol. Weight of Antigen	47-55kDa
Cellular Localization	Cytoplasm, Nucleolus, Nucleoplasm, Nucleus, Nucleus speckle
Species Reactivity	Human, Mouse, Rat
Positive Control	K562 cells. Wilm's Tumor, mesothelioma or fetal kidney. MCF7.

**Optimal dilution for a specific application should be determined.*

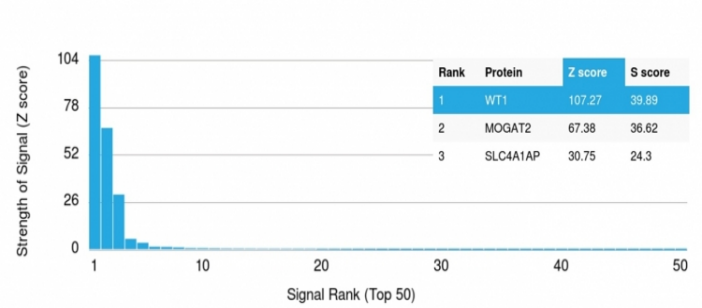
Product Images for Recombinant Wilm’s Tumor 1 (WT1) (Wilm’s Tumor & Mesothelial Marker) Antibody



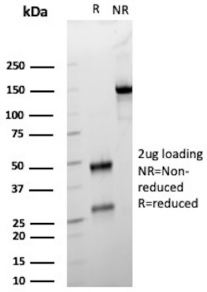
Formalin-fixed, paraffin-embedded human Mesothelioma stained with Wilm's Tumor Mouse Recombinant Monoclonal Antibody (rWT1/857).



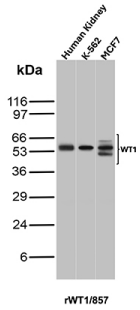
Formalin-fixed, paraffin-embedded Rat Testis stained with Wilm's Tumor Mouse Recombinant Monoclonal Antibody (rWT1/857).



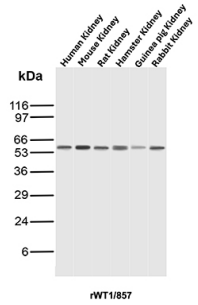
Analysis of Protein Array containing more than 19,000 full-length human proteinsusing Wilm's Tumor Mouse Recombinant Monoclonal Antibody (rWT1/857). Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary 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.



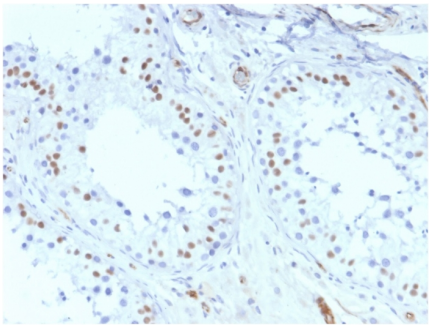
SDS-PAGE Analysis of Purified Wilms tumor protein Recombinant Mouse Monoclonal Antibody (rWT1/857). Confirmation of Purity and Integrity of Antibody.



Western Blot Analysis of Human Kidney, K-562 and MCF7 lysates using WT1 Recombinant Mouse Monoclonal Antibody (rWT1/857).



Western Blot Analysis of Kidney tissue lysates of different species using WT1 Recombinant Mouse Monoclonal Antibody (rWT1/857).



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

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Specificity & Comments

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.

Supplied As

200ug/ml of Ab produced in HEK293 cell mammalian-based expression system. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

Storage and Stability

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. No MSDS required.

Research Areas

Cancer, Cardiac Stem Cells, Developmental Biology, Stem Cell, Stem Cell Differentiation

Limitations and Warranty