

## Wilm's Tumor Protein. Mouse Monoclonal Antibody WLM04 , Human

### BACKGROUND

Recognizes a 47-55kDa tumor suppressor protein, identified as Wilm's Tumor (WT) protein. Epitope of this antibody maps between amino acids 1-318. WT, a sporadic and familial childhood kidney tumor, is genetically heterogeneous. Wilms' 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 Wilms tumor and mesothelioma. This antibody is excellent for staining of formalin-fixed, paraffin-embedded tissues.

### ORDERING INFORMATION

**CATALOG NUMBER**  
X1480M

**SIZE**  
100 µg

**FORM**  
Unconjugated

**HOST/CLONE**  
Mouse Clone WLM04

**FORMULATION**  
Provided as solution in phosphate buffered saline with 0.08% sodium azide

**CONCENTRATION**  
1 mg/ml

**ISOTYPE**  
IgG1

**APPLICATIONS**  
Western Blot, Immunoprecipitation, Immunohistochemistry, Immunofluorescence

### IMMUNOGEN

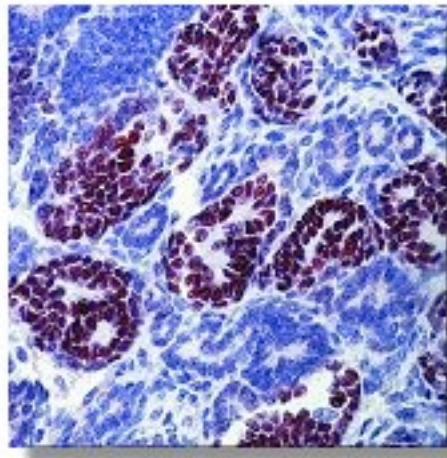
Hybridoma produced by the fusion of splenocytes from BALB/c mice immunized with recombinant human WT1 protein corresponding to amino acids 1-318 and mouse myeloma NS1 cells.

### SPECIES REACTIVITY

Human

### Legend:

Immunohistochemical staining using Wilm's tumor antibody on formalin fixed, paraffin embedded human Wilm's tumor tissue.



**For research use only. Not for use in human diagnostics or therapeutics.**

**POSITIVE CONTROL/TISSUE EXPRESSION**

SK-NEP-1 cells or Wilm's tumor

**COMMENTS**

This antibody can be used for immunofluorescence, immunoprecipitation (2 µg/mg of protein lysate), Western blotting (1 µg/ml) and immunohistochemistry on frozen and formalin/paraffin embedded tissues (4-8 µg/ml). Optimal concentration should be evaluated by serial dilutions.

**SHIP CONDITIONS**

Ship at ambient temperature, freeze upon arrival

**STORAGE CUSTOMER**

Product should be stored at -20°C. Aliquot to avoid freeze/thaw cycles

**STABILITY**

Products are stable for one year from purchase when stored properly

**REFERENCES**

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3. Yang Y, et al: WT1 and PAX-2 podocyte expression in Denys-Drash syndrome and isolated diffuse mesangial sclerosis. *Am J Pathol* 1999 Jan;154(1):181-192.
4. Barnoud R, et al: Desmoplastic small round cell tumor: RT-PCR analysis and immunohistochemical detection of the Wilm's tumor gene WT1. *Pathol Res Pract* 1998;194(10):693-700.
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6. Deuel TF, et al: Wilms' tumor gene product WT1 arrests macrophage differentiation of HL-60 cells through its zinc-finger domain. *Biochem Biophys Res Commun* 1999 Jan 8;254(1):192-196.
7. Thorner P, et al: Expression of WT1 in Pediatric Small Cell Tumors: Report of Two Cases with a Possible Mesothelial Origin. *Pediatric and Developmental Pathology* 1999 Jan;2(1):33-41.
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**LAST MODIFIED** 10/17/2008

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