

#83535 Store at -20C

WT1 (D8I7F) XP® Rabbit mAb**Cell Signaling**
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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
WB, IP, IHC-P, IF-IC	H	Endogenous	51-60	Rabbit IgG	#P19544	7490

Product Usage Information**Application**

Western Blotting
Immunoprecipitation
Immunohistochemistry (Paraffin)
Immunofluorescence (Immunocytochemistry)

Dilution

1:1000
1:50
1:100
1:200

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

Specificity / Sensitivity

WT1 (D8I7F) XP® Rabbit mAb recognizes endogenous levels of total WT1 protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the amino terminus of human WT1 protein.

Background

Wilms' Tumor 1 (WT1) is a transcription factor named from Wilms' Tumor 1, an embryonal malignancy of the kidneys that is caused by mutations in the *WT1* gene (1). It is highly important in development, particularly of the genitourinary system, and mutations and dysregulation of expression of WT1 result in a variety of syndromes affecting the genitourinary system and other tissues (2-5).

WT1 has a myriad of biological functions and a host of interacting partners and target genes (6). It can behave as a transcriptional activator, or a repressor, and can act as an oncogene or a tumor suppressor (7). It exerts influence over the epigenetic landscape, and also has post translational influence of gene expression through RNA interactions (8). The diverse biological roles of WT1 have been attributed to the existence of multiple isoforms and post translation modifications of the protein (9).

Background References

1. Royer-Pokora, B. et al. (2004) *Am J Med Genet A* 127A, 249-57.
2. Kohsaka, T. et al. (1999) *Hum Mutat* 14, 466-70.
3. Little, M. et al. (2000) *Hum Mutat* 15, 389.
4. Takata, A. et al. (2000) *J Med Genet* 37, 698-701.
5. Suri, M. et al. (2007) *Am J Med Genet A* 143A, 2312-20.
6. Toska, E. and Roberts, S.G. (2014) *Biochem J* 461, 15-32.
7. Yang, L. et al. (2007) *Leukemia* 21, 868-76.
8. Weiss, T.C. and Romaniuk, P.J. (2009) *Biochemistry* 48, 148-55.
9. Haber, D.A. et al. (1991) *Proc Natl Acad Sci U S A* 88, 9618-22.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

WB: Western Blotting **IP:** Immunoprecipitation **IHC-P:** Immunohistochemistry (Paraffin)
IF-IC: Immunofluorescence (Immunocytochemistry)

Cross-Reactivity Key

H: human **M:** mouse **R:** rat **Hm:** hamster **Mk:** monkey **Vir:** virus **Mi:** mink **C:** chicken **Dm:** D. melanogaster
X: Xenopus **Z:** zebrafish **B:** bovine **Dg:** dog **Pg:** pig **Sc:** S. cerevisiae **Ce:** C. elegans **Hr:** horse
GP: Guinea Pig **Rab:** rabbit **All:** all species expected

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