

WT1 (D6M6S) Rabbit mAb

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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W	H	Endogenous	51	Rabbit IgG	#P19544	7490

Product Usage Information**Application**

Western Blotting

Dilution

1:1000

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 (D6M6S) 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 surrounding Val306 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 WT1 expression 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-translational 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 USA* 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

W: Western Blotting

Cross-Reactivity Key

H: Human

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