

**#5854** Store at -20C

## WTX (D38E5) Rabbit mAb


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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
WB	H	Transfected Only	200	Rabbit	#Q5JTC6	139285

### 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

WTX (D38E5) Rabbit mAb detects transfected levels of total WTX protein.

### Source / Purification

Monoclonal antibody is produced by immunizing animals with recombinant protein specific to the amino terminus of human WTX protein.

### Background

WTX (Wilms' tumor gene on the X chromosome) is a developmentally regulated gene with a potentially important role in kidney development (1). Functional studies of WTX suggest that it acts as a tumor suppressor gene in renal cells by promoting  $\beta$ -catenin ubiquitination and degradation, thereby antagonizing WNT/ $\beta$ -catenin signaling (1,2). WTX is found to be inactivated in 30% of Wilms' tumors, mostly by chromosomal deletion (3). Wilms' tumor is a pediatric kidney cancer that arises from cells that fail to differentiate during kidney development (4). Inactivation of the WT1 tumor suppressor gene accounts for 10-15% of Wilms' tumor cases (5). WTX has been shown to enhance WT1-mediated transactivation, suggesting a physiologically significant interaction between WT1 and WTX (1). WTX may be directly involved in the transcriptional regulation of cellular differentiation in the kidney through interactions with WT1 and other transcription factors (1).

### Background References

1. Rivera, M.N. et al. (2007) *Science* 315, 642-5.
2. Major, M.B. et al. (2007) *Science* 316, 1043-6.
3. Kim, M.S. et al. (2010) *J Biol Chem* 285, 14585-93.
4. Dome JS, Huff V. (2003) *GeneReviews*
5. Hohenstein, P. and Hastie, N.D. (2006) *Hum Mol Genet* 15 Spec No 2, R196-201.

### 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

### 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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