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TBL1XR1/TBLR1 (D4J9C) Rabbit mAb

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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, ChIP	H Mk	Endogenous	50, 60	Rabbit IgG	#Q9BZK7	79718

Product Usage Information

For optimal ChIP results, use 10 µl of antibody and 10 µg of chromatin (approximately 4 x 10^6 cells) per IP. This antibody has been validated using SimpleChIP® Enzymatic Chromatin IP Kits.

Application	Dilution
Western Blotting	1:1000
Immunoprecipitation	1:100
Chromatin IP	1:50

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

TBL1XR1/TBLR1 (D4J9C) Rabbit mAb recognizes endogenous levels of total TBL1XR1/TBLR1 protein. This antibody also cross-reacts with an unidentified protein of 130 kDa.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro159 of human TBL1XR1/TBLR1 protein.

Background

Transducing β-like protein 1 (TBL1X/TBL1) and TBL1-related protein 1 (TBL1XR1/TBLR1) were originally identified as subunits of the co-repressor silencing mediator for retinoic and thyroid hormone receptor (SMRT) and nuclear receptor co-repressor (NCoR) complexes (1-3). These two factors are required for the exchange of co-repressor complexes for co-activators by acting as adaptors to recruit the ubiquitin/proteasome machinery that degrades the co-repressor proteins during ligand mediated activation of transcription (4,5). Co-factor exchange driven by TBL1X/TBL1 and TBL1XR1/TBLR1 appears to be the mechanism by which c-Jun and NF-κB mediated transcription is activated and is therefore likely to be the mechanism employed by other signal-dependent transcription factors as well (4,6). In addition, both TBL1X/TBL1 and TBL1XR1/TBLR1 have essential roles in regulating the Wnt-signaling pathway by recruiting β-catenin to Wnt target genes to activate transcription. Depletion of TBL1X-TBL1XR1 significantly inhibited Wnt-beta-catenin- induced gene expression and oncogenic growth in vitro and in vivo (7). Research studies have shown that upregulation of TBL1XR/TBLR1 is observed in a variety of solid tumors, and is correlated with advanced tumor stage, metastasis and poor prognosis (1).

Background References

1. Li, J.Y. et al. (2015) *Am J Clin Exp Urol* 3, 13-23.
2. Zhang, J. et al. (2002) *Mol Cell* 9, 611-23.
3. Yoon, H.G. et al. (2003) *EMBO J* 22, 1336-46.
4. Perissi, V. et al. (2004) *Cell* 116, 511-26.
5. Perissi, V. et al. (2008) *Mol Cell* 29, 755-66.
6. Hoberg, J.E. et al. (2004) *Mol Cell* 16, 245-55.
7. Li, J. and Wang, C.Y. (2008) *Nat Cell Biol* 10, 160-9.

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 nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

WB: Western Blotting **IP:** Immunoprecipitation **ChIP:** Chromatin IP

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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