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TCF1/TCF7 (C46C7) Rabbit mAb



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Applications: Source/Isotype: Reactivity: Sensitivity: MW (kDa): **UniProt ID:** Entrez-Gene Id: WB, IP $\mathsf{H}\,\mathsf{M}\,\mathsf{R}$ Endogenous 28-50 Rabbit #P36402 6932 **Product Usage** Application Dilution Information Western Blotting 1:1000 Immunoprecipitation 1:50 Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than **Storage** 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

Specificity / Sensitivity

TCF1/TCF7 (C46C7) Rabbit mAb detects endogenous levels of total TCF1/TCF7 proteins. This antibody should detect all TCF1/TCF7 isoforms, including those lacking the amino-terminal β-catenin binding domain. This antibody does not cross-react with LEF1.

Source / PurificationMonoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to a region surrounding Leu160 of human TCF1/TCF7 protein.

BackgroundLEF1 and TCF are members of the high mobility group (HMG) DNA-binding protein family of transcription factors that consists of the following: Lymphoid Enhancer Factor 1 (LEF1), T Cell Factor 1 (TCF1/TCF7),

TCF3/TCF7L1, and TCF4/TCF7L2 (1). LEF1 and TCF1/TCF7 were originally identified as important factors that regulate early lymphoid development (2) and act downstream in Wnt signaling. LEF1 and TCF bind to Wnt response elements to provide docking sites for β -catenin, which translocates to the nucleus to promote the transcription of target genes upon activation of Wnt signaling (3). LEF1 and TCF are dynamically expressed during development and aberrant activation of the Wnt signaling pathway is

involved in many types of cancers, including colon cancer (4,5).

TCF1/TCF7 has several isoforms due to alternative splicing and transcription from an alternative promoter. The isoforms generated by the alternative promoter do not contain the amino-terminal β -catenin binding domain and therefore may function in a dominant negative manner (6). TCF1/TCF7 displays dynamic expression both in the total amount and the type of isoforms expressed in T cells during development and differentiation (7)

differentiation (7).

Background References 1. Waterman, M.L. (2004) Cancer Metastasis Rev 23, 41-52.

2. Schilham, M.W. and Clevers, H. (1998) Semin Immunol 10, 127-32.

3. Brantjes, H. et al. (2002) Biol Chem 383, 255-61.

4. Reya, T. and Clevers, H. (2005) Nature 434, 843-50.

5. Logan, C.Y. and Nusse, R. (2004) Annu Rev Cell Dev Biol 20, 781-810.

6. Waterman, M.L. (2004) Cancer Metastasis Rev. 23, 41-52.

7. Willinger, T. et al. (2006) J. Immunol. 176, 1439-1446.

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

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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