

11-513-C025

## Polyclonal Antibody to TCF4 / TF7L2 Purified Antibody (0.025 mg)

<b>Clone:</b>	Polyclonal
<b>Isotype:</b>	Rabbit None
<b>Specificity:</b>	The polyclonal antibody reacts with TCF4. TCF4 (transcription factor 7-like 2; 66 kDa) serves as a transcriptional activator affecting e.g. cell cycle and terminal cell differentiation.
<b>Immunogen:</b>	Bacterially expressed full-length human TCF4
<b>Species Reactivity:</b>	Human, Mouse
<b>Application:</b>	<b>Immunoprecipitation</b> <i>Positive control:</i> DLD-1 human colon adenocarcinoma cell line <b>Western Blotting</b> <i>Application note:</i> Reducing conditions. <b>Immunocytochemistry</b> <i>Recommended dilution:</i> 1 µg/ml <i>Staining technique:</i> acetone / methanol fixation
<b>Purity:</b>	> 95% (by SDS-PAGE)
<b>Purification:</b>	Purified from rabbit serum by protein-A affinity chromatography.
<b>Concentration:</b>	1 mg/ml
<b>Storage Buffer:</b>	Phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.4
<b>Storage / Stability:</b>	Store at 2-8°C. Do not use after expiration date stamped on vial label. For long-term storage aliquot and store at -20°C. Avoid freeze/thaw cycles.
<b>Expiration:</b>	See vial label
<b>Lot Number:</b>	See vial label
<b>Background:</b>	<b>TCF4</b> (T cell factor 4; also known as TF7L2) serves as transcriptional activator affecting e.g. cell cycle and terminal cell differentiation. In the absence of Wnt signals, TCF4 interacts with TLE/Groucho corepressor, suppressing the transcription of TCF4 target genes. Wnt signaling leads to stabilisation and accumulation of β-catenin, which binds TCF4 N-terminus, whereas TCF4 C-terminal HMG-box domains interact with DNA. Cell death-associated Daxx protein or plakoglobin belong to negative regulators of TCF4-mediated transcription, on the other hand, there is a positive feedback loop of β-catenin-TCF4 pathway comprising the p300 coactivator.

**For laboratory research only, not for drug, diagnostic or other use.**



**Antibodies**

**References:**

- \*Raurell I, Castaño J, Francí C, García de Herreros A, Duñach M.: Presenilin-1 interacts with plakoglobin and enhances plakoglobin-Tcf-4 association. Implications for the regulation of beta-catenin/Tcf-4-dependent transcription. *J Biol Chem.* 2006 Jan 20;281(3):1401-11.
- \*Tzeng SL, Cheng YW, Li CH, Lin YS, Hsu HC, Kang J.J.: Physiological and functional interactions between Tcf4 and Daxx in colon cancer cells. *J Biol Chem.* 2006 Jun 2;281(22):15405-11.
- \*Valenta T, Lukas J, Korinek V.: HMG box transcription factor TCF-4's interaction with CtBP1 controls the expression of the Wnt target Axin2/Conductin in human embryonic kidney cells. *Nucleic Acids Res.* 2003 May 1;31(9):2369-80.
- \*Valenta T, Lukas J, Doubravska L, Fafilek B, Korinek V.: HIC1 attenuates Wnt signaling by recruitment of TCF-4 and beta-catenin to the nuclear bodies. *EMBO J.* 2006 Jun 7;25(11):2326-37.
- \*Lukas J, Mazna P, Valenta T, Doubravska L, Pospichalova V, Vojtechova M, Fafilek B, Ivanek R, Plachy J, Novak J, Korinek V: Dazap2 modulates transcription driven by the Wnt effector TCF-4. *Nucleic Acids Res.* 2009 Mar 20. [Epub ahead of print]

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