



11-513-C025

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

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| Clone: | Polyclonal |
| Isotype: | Rabbit None |
| Specificity: | 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. |
| Immunogen: | Bacterially expressed full-length human TCF4 |
| Species Reactivity: | Human, Mouse |
| Application: | Immunoprecipitation Positive control: DLD-1 human colon adenocarcinoma cell line Western Blotting Application note: Reducing conditions. Immunohistochemistry (paraffin sections) Recommended dilution: 10 µg/ml Positive tissue: colon Immunocytochemistry Recommended dilution: 1 µg/ml Staining technique: acetone / methanol fixation |
| Purity: | > 95% (by SDS-PAGE) |
| Purification: | Purified from rabbit serum by protein-A affinity chromatography. |
| Concentration: | 1 mg/ml |
| Storage Buffer: | Phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.4 |
| Storage / Stability: | 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. |
| Expiration: | See vial label |
| Lot Number: | See vial label |
| Background: | TCF4 (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 beta-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 beta-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 JJ: 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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