

TCF7L2 / TCG4 Antibody Rabbit Polyclonal Antibody Catalog # ALS12938

## **Specification**

# TCF7L2 / TCG4 Antibody - Product Information

Application Primary Accession Reactivity Host Clonality Calculated MW IHC <u>O9NOB0</u> Human, Mouse Rabbit Polyclonal 68kDa KDa

## TCF7L2 / TCG4 Antibody - Additional Information

Gene ID 6934

**Other Names** Transcription factor 7-like 2, HMG box transcription factor 4, T-cell-specific transcription factor 4, T-cell factor 4, TCF-4, hTCF-4, TCF7L2, TCF4

**Target/Specificity** 

Reacts with TCF4. TCF4 (transcription factor 7-like 2; 66 kD) serves as a transcriptional activator affecting e. g. cell cycle and terminal cell differentiation.

**Reconstitution & Storage** 

Short term 4°C, long term aliquot and store at -20°C, avoid freeze thaw cycles.

Precautions

TCF7L2 / TCG4 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

## TCF7L2 / TCG4 Antibody - Protein Information

Name TCF7L2

Synonyms TCF4

Function

Participates in the Wnt signaling pathway and modulates MYC expression by binding to its promoter in a sequence-specific manner. Acts as a repressor in the absence of CTNNB1, and as activator in its presence. Activates transcription from promoters with several copies of the Tcf motif 5'-CCTTTGATC-3' in the presence of CTNNB1. TLE1, TLE2, TLE3 and TLE4 repress transactivation mediated by TCF7L2/TCF4 and CTNNB1. Expression of dominant-negative mutants results in cell-cycle arrest in G1. Necessary for the maintenance of the epithelial stem-cell compartment of the small intestine.

**Cellular Location** 



Nucleus, PML body. Nucleus. Note=Diffuse pattern. Colocalizes with SUMO1 and PIAS4 in a subset of PML (promyelocytic leukemia) nuclear bodies

#### **Tissue Location**

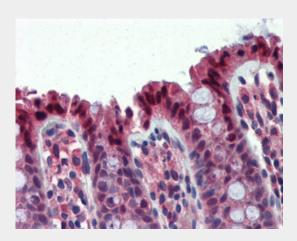
Detected in epithelium from small intestine, with the highest expression at the top of the crypts and a gradient of expression from crypt to villus. Detected in colon epithelium and colon cancer, and in epithelium from mammary gland and carcinomas derived therefrom.

## TCF7L2 / TCG4 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- <u>Cell Culture</u>

## TCF7L2 / TCG4 Antibody - Images



Anti-TCF7L2 antibody IHC of human colon.

## TCF7L2 / TCG4 Antibody - Background

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## TCF7L2 / TCG4 Antibody - References

Korinek V.,et al.Science 275:1784-1787(1997). Duval A.,et al.Cancer Res. 60:3872-3879(2000). Prokunina-Olsson L.,et al.Hum. Mol. Genet. 18:3795-3804(2009). Tsedensodnom O.,et al.Exp. Cell Res. 317:920-931(2011).



Iseki H., et al. Submitted (JUN-2008) to the EMBL/GenBank/DDBJ databases.