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TCF7L2 Antibody (N-term) Blocking peptide
Synthetic peptide
Catalog # BP12416a

Specification

TCF7L2 Antibody (N-term) Blocking peptide - Product Information

Primary Accession Q9NQB0

TCF7L2 Antibody (N-term) Blocking peptide - 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

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

TCF7L2 Antibody (N-term) Blocking peptide - 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 Antibody (N-term) Blocking peptide - Protocols

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

- Blocking Peptides

TCF7L2 Antibody (N-term) Blocking peptide - Images

TCF7L2 Antibody (N-term) Blocking peptide - Background

This gene encodes a high mobility group (HMG)box-containing transcription factor that plays a key role in theWnt signaling pathway. The protein has been implicated in bloodglucose homeostasis. Genetic variants of this gene are associatedwith increased risk of type 2 diabetes. Several transcript variantsencoding multiple different isoforms have been found for this gene.

TCF7L2 Antibody (N-term) Blocking peptide - References

Hansson, O., et al. Curr. Diab. Rep. 10(6):444-451(2010)Heni, M., et al. Diabetes (2010) In press :Potapov, V.A., et al. Genetika 46(8):1123-1131(2010)Kucharska-Newton, A.M., et al. J Obes 2010 (2010) :Zabaneh, D., et al. PLoS ONE 5 (8), E11961 (2010) :