

TCF7L2 Antibody (N-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP12416A**Specification**

TCF7L2 Antibody (N-term) - Product Information

Application	WB,E
Primary Accession	O9NQBO
Other Accession	O924A0 , NP_001139756.1 , NP_001139746.1
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	67919
Antigen Region	61-90

TCF7L2 Antibody (N-term) - 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

This TCF7L2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 61-90 amino acids from the N-terminal region of human TCF7L2.

Dilution

WB~~1:2000

E~~Use at an assay dependent concentration.

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

TCF7L2 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

TCF7L2 Antibody (N-term) - 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

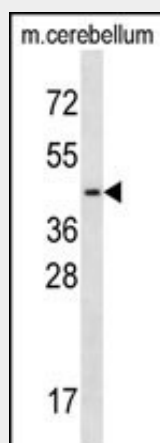
Detected in epithelium from small intestine, with the highest expression at the top of the crypts and a gradient of expression from crypt to villus. Detected in colon epithelium and colon cancer, and in epithelium from mammary gland and carcinomas derived therefrom.

TCF7L2 Antibody (N-term) - Protocols

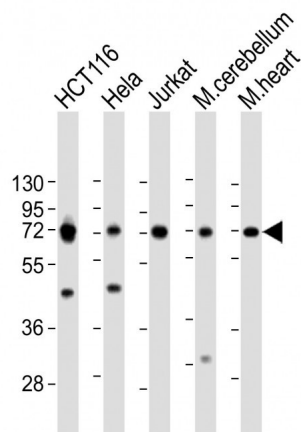
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

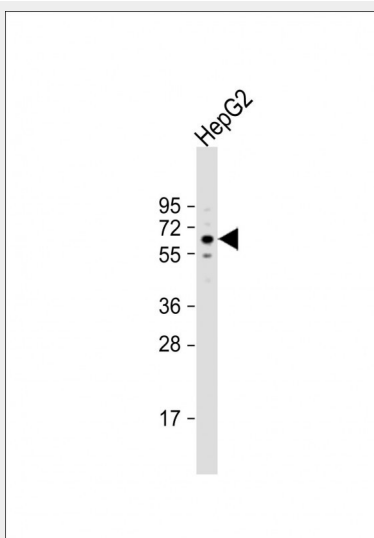
TCF7L2 Antibody (N-term) - Images



TCF7L2 Antibody (N-term) (Cat. #AP12416a) western blot analysis in mouse cerebellum tissue lysates (35ug/lane). This demonstrates the TCF7L2 antibody detected the TCF7L2 protein (arrow).



All lanes : Anti-TCF7L2 Antibody (N-term) at 1:2000 dilution Lane 1: HCT116 whole cell lysate Lane 2: HeLa whole cell lysate Lane 3: Jurkat whole cell lysate Lane 4: mouse cerebellum lysate Lane 5: mouse heart lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 68 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



Anti-TCF7L2 Antibody (N-term) at 1:2000 dilution + HepG2 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 68 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

TCF7L2 Antibody (N-term) - Background

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

TCF7L2 Antibody (N-term) - 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) :