

ARG41987 anti-TCF7L2 antibody

Package: 100 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes TCF7L2
Tested Reactivity	Hu, Ms, Rat
Tested Application	FACS, ICC/IF, IHC-P, IP, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	TCF7L2
Species	Human
Immunogen	Synthetic peptide of Human TCF7L2.
Conjugation	Un-conjugated
Alternate Names	TCF4; TCF-4; T-cell factor 4; hTCF-4; HMG box transcription factor 4; T-cell-specific transcription factor 4; Transcription factor 7-like 2

Application Instructions

Application table	Application	Dilution
	FACS	1:50
	ICC/IF	1:50 - 1:200
	IHC-P	1:50 - 1:200
	IP	1:50
	WB	1:5000 - 1:20000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	Jurkat	
Observed Size	~ 68 kDa	

Properties

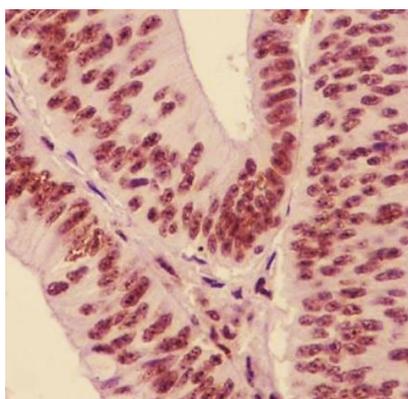
Form	Liquid
Purification	Affinity purified.
Buffer	PBS (pH 7.4), 150 mM NaCl, 0.02% Sodium azide and 50% Glycerol.
Preservative	0.02% Sodium azide
Stabilizer	50% Glycerol

Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol	TCF7L2
Gene Full Name	transcription factor 7-like 2 (T-cell specific, HMG-box)
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.[provided by RefSeq, Oct 2010]
Function	Participates in the Wnt signaling pathway and modulates MYC expression by binding to its promoter in a sequence-specific manner. Acts as 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. [UniProt]
Calculated Mw	68 kDa
PTM	In vitro, phosphorylated by TNIK. Phosphorylated at Thr-201 and/or Thr-212 by NLK. Phosphorylation by NLK at these sites inhibits DNA-binding by TCF7L2/TCF4, thereby preventing transcriptional activation of target genes of the canonical Wnt/beta-catenin signaling pathway. Polysumoylated. Sumoylation is enhanced by PIAS family members and desumoylation is enhanced by SENP2. Sumoylation/desumoylation regulates TCF7L2/TCF4 transcription activity in the Wnt/beta-catenin signaling pathway without altering interaction with CTNNB1 nor binding to DNA. [UniProt]
Cellular Localization	Nucleus, PML body. Note=Diffuse pattern. Colocalizes with SUMO1 and PIAS4 in a subset of PML (promyelocytic leukemia) nuclear bodies. [UniProt]

Images



ARG41987 anti-TCF7L2 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human colonic cancer tissue stained with ARG41987 anti-TCF7L2 antibody.

ARG41987 anti-TCF7L2 antibody WB image

Western blot: Jurkat cell lysate stained with ARG41987 anti-TCF7L2 antibody.

