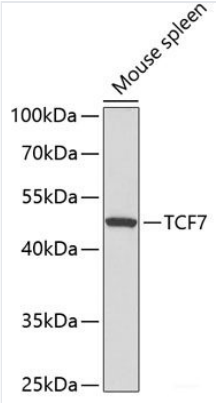
TCF7 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	TCF7, Polyclonal Antibody
Full Product Name	TCF7 Polyclonal Antibody
Product Gene Name	anti-TCF7 antibody
Product Synonym Names	TCF7; TCF-1
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Mouse
Form/Format	PBS with 0.02% sodium azide, 50% glycerol, pH7.3
Purity/Purification	Affinity purification
Concentration	1mg/mL (lot specific)
Preparation and Storage	Store at -20 degree C. Avoid freeze/thaw cycles.
Molecular Weight	41,642 Da
Chromosome Location	Chromosome: 5; NC_000005.9 (133450402..133483920). Location: 5q31.1
OMIM	189908
3D Structure	ModBase 3D Structure for P36402
Immunogen	A synthetic peptide of human TCF7
Conjugation	Unconjugated
Product Categories/Family for anti-TCF7 antibody	Epigenetics and Nuclear Signaling; Immunology; Stem Cells; Polyclonal Antibody
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-TCF7 antibody	Western Blot (WB)
Application Notes for anti-TCF7 antibody	WB: 1:500-1:1000
Related Product Information for anti-TCF7 antibody	The protein encoded by this gene is a transcriptional activator that plays an important role in lymphocyte differentiation. This gene is expressed predominantly in T-cells. The encoded protein can bind an enhancer element and activate the CD3E gene, and it also may repress the CTNNB1 and TCF7L2 genes through a feedback mechanism. Several transcript variants encoding different isoforms have been found for this gene.
Other Notes	Small volumes of anti-TCF7 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for TCF7 purchase	MBS2566374 is an antibody targeting TCF7. Also known as TCF7 Polyclonal Antibody. Reactive in Mouse. Host: Rabbit.



Western Blot (WB) of anti-TCF7 antibody
Western blot analysis of extracts of Mouse spleen using TCF7 Polyclonal Antibody at dilution of 1:300.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for TCF7. It may not necessarily be applicable to this product.

NCBI GI #	293651582
NCBI GeneID	6932
NCBI Accession #	NP_001128323.2
UniProt Primary Accession #	P36402
UniProt Secondary Accession #	Q86WR9; Q9UKI4; B3KSH3
UniProt Related Accession #	P36402
GenBank Nucleotide #	NM_001134851.2
NCBI Official Full Name	transcription factor 7 isoform 3
NCBI Official Synonym Full Names	transcription factor 7 (T-cell specific, HMG-box)
NCBI Official Symbol	TCF7
NCBI Official Synonym Symbols	TCF-1
UniProt Protein Name	Transcription factor 7
UniProt Synonym Protein Names	T-cell-specific transcription factor 1
Protein Family	Transcription factor
UniProt Gene Name	TCF7
UniProt Synonym Gene Names	TCF1; TCF-7; T-cell factor 1; TCF-1
UniProt Entry Name	TCF7_HUMAN
NCBI Protein Information	transcription factor 7; T-cell-specific transcription factor 1

UniProt Comments for TCF7	TCF7: Transcriptional activator involved in T-cell lymphocyte differentiation. Necessary for the survival of CD4(+) CD8(+) immature thymocytes. Isoforms lacking the N-terminal CTNNB1 binding domain cannot fulfill this role. Binds to the T- lymphocyte-specific enhancer element (5'-WWCAAAG-3') found in the promoter of the CD3E gene. May also act as feedback transcriptional repressor of CTNNB1 and TCF7L2 target genes. TLE1, TLE2, TLE3 and TLE4 repress transactivation mediated by TCF7 and CTNNB1. Binds the armadillo repeat of CTNNB1 and forms a stable complex. Interacts with AES, TLE1, TLE2, TLE3 and TLE4. By TCF7L2 and CTNNB1. Predominantly expressed in T-cells. Also detected in proliferating intestinal epithelial cells and in the basal epithelial cells of mammary gland epithelium. Belongs to the TCF/LEF family. 16 isoforms of the human protein are produced by alternative promoter. Protein type: Transcription factor; DNA-binding Chromosomal Location of Human Ortholog: 5q31.1 Cellular Component: nucleoplasm; transcription factor complex; nucleus Molecular Function: protein binding; sequence-specific DNA binding; beta-catenin binding; chromatin binding; transcription factor activity Biological Process: neural tube development; transcription, DNA-dependent; alpha-beta T cell differentiation; Wnt receptor signaling pathway through beta-catenin; regulation of cell proliferation; regulation of transcription from RNA polymerase II promoter; embryonic digestive tract morphogenesis; generation of neurons; T cell receptor V(D)J recombination; immune response; brain development; embryonic genitalia morphogenesis; embryonic hindgut morphogenesis
Research Articles on TCF7	**1.** in this review, we will focus on the function of beta-catenin/TCF-1 pathway in the regulation of thymic and peripheral T cell differentiation processes--{REVIEW}
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