TCF7 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	TCF7, Monoclonal Antibody
Full Product Name	TCF7 (Transcription Factor 7 (T-Cell Specific, HMG-Box), FLJ36364, MGC47735, TCF-1) (MaxLight 405)
Product Gene Name	anti-TCF7 antibody
Product Synonym Names	Transcription Factor 7 (T-Cell Specific; HMG-Box); FLJ36364; MGC47735; TCF-1
Clonality	Monoclonal
Isotype	IgG1,k
Clone Number	1B3
Host	Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight405.
Purity/Purification	Purified
Specificity	Recognizes TCF7.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight405 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	42kDa
3D Structure	ModBase 3D Structure for Q86WR9
Immunogen	TCF7 (NP_003193, 287aa-384aa) partial recombinant protein with GST tag. MW of the GST tag alone is 26kD.
Conjugate	MaxLight405
Product Categories/Family for anti-TCF7 antibody	Antibodies; Transcription Factors
Applications Tested/Suitable for anti-TCF7 antibody	Western Blot (WB)
Application Notes for anti-TCF7 antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-TCF7 antibody	MBS6198242 is an antibody targeting TCF7. Also known as TCF7 (Transcription Factor 7 (T-Cell Specific, HMG-Box), FLJ36364, MGC47735, TCF-1) (MaxLight 405). Host: Mouse. Mouse monoclonal antibody raised against a partial recombinant TCF7.
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.

ADDITIONAL DETAILS

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

NCBI GI #	42518080
NCBI GeneID	6932

NCBI Accession #	NP_003193
UniProt Primary Accession #	Q86WR9
UniProt Related Accession #	P36402
GenBank Nucleotide #	NM_003202
NCBI Official Full Name	transcription factor 7 isoform 1
NCBI Official Synonym Full Names	transcription factor 7
NCBI Official Symbol	TCF7
NCBI Official Synonym Symbols	TCF-1
Protein Family	Transcription factor
NCBI Protein Information	transcription factor 7
NCBI Summary for TCF7	This gene encodes a member of the T-cell factor/lymphoid enhancer-binding factor family of high mobility group (HMG) box transcriptional activators. This gene is expressed predominantly in T-cells and plays a critical role in natural killer cell and innate lymphoid cell development. The encoded protein forms a complex with beta-catenin and activates transcription through a Wnt/beta-catenin signaling pathway. Mice with a knockout of this gene are viable and fertile, but display a block in T-lymphocyte differentiation. Alternative splicing results in multiple transcript variants. Naturally-occurring isoforms lacking the N-terminal beta-catenin interaction domain may act as dominant negative regulators of Wnt signaling. [provided by RefSeq, Oct 2016]
Research Articles on TCF7	**1.** Our study provides a new mechanism for chromatin occupancy of Tcf7 and uncovers the physiological significance of Uch37 during early vertebrate development by regulating the Wnt/beta-catenin pathway.
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