TCF2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	TCF2, Polyclonal Antibody
Full Product Name	TCF2 (Hepatocyte Nuclear Factor 1-beta, HNF-1-beta, HNF-1B, Homeoprotein LFB3, Transcription Factor 2, TCF-2, Variant Hepatic Nuclear Factor 1,
Product Gene Name	anti-TCF2 antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight405.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human HNF1B.
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 amo
Molecular Weight	46,907 Da
OMIM	125853
3D Structure	ModBase 3D Structure for P35680
Immunogen	Full length human HNF1B, aa1-557 (NP_000449.1).
Immunogen Sequence	MVSKLTSLQQELLSALLSSGVTKEVLVQALEELLPSPNFGVKLETLPLSPGSGAEPDTKPVFHTLTNGHAKGRLSGDEGSEDGDDYDTPPILKELQALNTE
Conjugate	MaxLight405
Note	Preservative Free
Product Categories/Family for anti-TCF2 antibody	Antibodies; Transcription Factors; Homeobox (HOX)
Applications Tested/Suitable for anti-TCF2 antibody	Western Blot (WB)
Application Notes for anti-TCF2 antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-TCF2 antibody	This gene encodes a member of the transcription factor superfamily. The encoded protein forms heterodimers with another member of this transcriptior

Other Notes	Small volumes of anti-TCF2 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessa
Searchable Terms for TCF2 purchase	MBS6396208 is an antibody targeting TCF2. Also known as TCF2 (Hepatocyte Nuclear Factor 1-beta, HNF-1-beta, HNF-1B, Homeoprotein LFB3, Tran

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for TCF2. It may not necessarily be applicable to this product.

NCBI GI #	4507397
NCBI GeneID	6928
NCBI Accession #	NP_000449.1
UniProt Primary Accession #	P35680
UniProt Secondary Accession #	B4DKM3; E0YMJ9
UniProt Related Accession #	P35680
GenBank Nucleotide #	NM_000458
NCBI Official Full Name	hepatocyte nuclear factor 1-beta isoform 1
NCBI Official Synonym Full Names	HNF1 homeobox B
NCBI Official Symbol	HNF1B
NCBI Official Synonym Symbols	FJHN; HNF2; LFB3; TCF2; HPC11; LF-B3; MODY5; TCF-2; VHNF1; HNF-1B; HNF1beta; HNF-1-beta
UniProt Protein Name	Hepatocyte nuclear factor 1-beta
UniProt Synonym Protein Names	Homeoprotein LFB3; Transcription factor 2; TCF-2; Variant hepatic nuclear factor 1
UniProt Gene Name	HNF1B
UniProt Synonym Gene Names	TCF2; HNF-1-beta; HNF-1B; TCF-2; vHNF1
UniProt Entry Name	HNF1B_HUMAN
NCBI Protein Information	hepatocyte nuclear factor 1-beta
NCBI Summary for TCF2	This gene encodes a member of the homeodomain-containing superfamily of transcription factors. The protein binds to DNA as either a homodimer, or a heterodimer with the related protein hepatocyte nuclear factor 1-alpha. The gene has been shown to function in nephron development, and regulates development of the embryonic pancreas. Mutations in this gene result in renal cysts and diabetes syndrome and noninsulin-dependent diabetes mellitus, and expression of this gene is altered in some types of cancer. Multiple transcript variants encoding different isoforms have been found for this gene.[provided by RefSeq, Sep 2009]

UniProt Comments for TCF2	TCF2: Transcription factor, probably binds to the inverted palindrome 5'-GTTAATNATTAAC-3'. Defects in HNF1B are the cause of renal cysts and diabetes syndrome (RCAD); also called maturity-onset diabetes of the young type 5 (MODY5) or familial hypoplastic glomerulocystic kidney disease (GCKD). RCAD is an autosomal dominant disorder comprising non-diabetic renal disease resulting from abnormal renal development, and diabetes, which in some cases occurs earlier than age 25 years and is thus consistent with a diagnosis of maturity-onset diabetes of the young (MODY5). The renal disease is highly variable and includes renal cysts, glomerular tufts, aberrant nephrogenesis, primitive tubules, irregular collecting systems, oligomeganephronia, enlarged renal pelves, abnormal calyces, small kidney, single kidney, horseshoe kidney, and hyperuricemic nephropathy. Defects in HNF1B may be rare genetic risk factor contributing to the development of non-insulin-dependent diabetes mellitus (NIDDM). NIDDM is characterized by an autosomal dominant mode of inheritance, onset during adulthood and insulin resistance. Defects in HNF1B may be a cause of susceptibility to prostate cancer hereditary type 11 (HPC11). It is a condition associated with familial predisposition to cancer of the prostate. Most prostate cancers are adenocarcinomas that develop in the acini of the prostatic ducts. Other rare histopathologic types of prostate cancer that occur in approximately 5% of patients include small cell carcinoma, mucinous carcinoma, prostatic ductal carcinoma, transitional cell carcinoma, squamous cell carcinoma, basal cell carcinoma, adenoid cystic carcinoma (basaloid), signet-ring cell carcinoma and neuroendocrine carcinoma. Belongs to the HNF1 homeobox family. 3 isoforms of the human protein are produced by alternative splicing. Protein type: Transcription factor; DNA-binding Chromosomal Location of Human Ortholog: 17q12 Cellular Component: nucleoplasm; transcription factor complex; nucleus Molecular Function: RNA polymerase II transcription factor activity, enhancer binding; protein binding; protein homodimerization activity; DNA binding; protein heterodimerization activity; transcription factor activity Biological Process: transcription from RNA polymerase II promoter; endodermal cell fate specification; positive regulation of transcription, DNA-dependent; regulation of Wnt receptor signaling pathway; negative regulation of transcription from RNA polymerase II promoter; endocrine pancreas development; pronephros development; anterior/posterior pattern formation; genitalia development; epithelial cell proliferation; inner cell mass cell differentiation; branching morphogenesis of a tube; insulin secretion; embryonic digestive tract morphogenesis; response to glucose stimulus; regulation of endodermal cell fate specification; kidney development; hindbrain development Disease: Renal Cysts And Diabetes Syndrome; Renal Cell Carcinoma, Nonpapillary; Diabetes Mellitus, Noninsulin-dependent
Research Articles on TCF2	**1.** HNF1B score was discriminatory for HNF1B mutations in a large cohort of individuals tested in a single UK centre
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.