

Recombinant Human HNF1B

Cat. No. HNF1B-29461TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment of Human TCF2 with N terminal proprietary tag; Predicted MW 37.29kDa.
Species	Human
Source	Wheat Germ
ProteinLength	105 amino acids
Description	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.
Molecular Weight	37.290kDa inclusive of tags
Form	Liquid
Purity	Proprietary Purification
Storage buffer	pH: 8.00Constituents:0.3% Glutathione, 0.79% Tris HCl

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Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	VRKQREILRQFNQTVQSSGNMTDKSSQDQLLFLFPEFSQQ SHGPGQSDDACSEPT NKKMRRNRFKWGPASQQILYQAYDR QKNPSKEEREALVEECNRAECLQRG
Sequence Similarities	Belongs to the HNF1 homeobox family.Contains 1 homeobox DNA-binding domain.

GENE INFORMATION

Gene Name	HNF1B HNF1 homeobox B [Homo sapiens]
Official Symbol	HNF1B
Synonyms	HNF1B; HNF1 homeobox B; TCF2, transcription factor 2, hepatic; LF B3; variant hepatic nuclear factor; hepatocyte nuclear factor 1-beta; HNF1beta; LFB3; MODY5; VHNF1;
Gene ID	6928
mRNA Refseq	NM_000458
Protein Refseq	NP_000449
MIM	189907
Uniprot ID	P35680
Chromosome Location	17q12

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Pathway

Developmental Biology, organism-specific biosystem; Maturity onset diabetes of the young, organism-specific biosystem; Maturity onset diabetes of the young, conserved biosystem; Regulation of beta-cell development, organism-specific biosystem; Regulation of gene expression in early pancreatic precursor cells, organism-specific biosystem;

Function

DNA binding; protein binding; protein heterodimerization activity; protein homodimerization activity; protein homodimerization activity;

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