

Recombinant Human HNF1B, GST-tagged

Cat. No. HNF1B-13862H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human HNF1B protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.
Species	Human
Source	E.coli
ProteinLength	N-term-310a.a.
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.
Storage	The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.
Storage Buffer	1M PBS (58mM Na2HPO4,17mM NaH2PO4, 68mM NaCl, pH8.) added with 100mM GSH and 1% Triton X-100,15%glycerol.

GENE INFORMATION

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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; TCF-2; HNF-1B; HNF-1-beta; HNF1 beta A; homeoprotein LFB3; transcription factor 2, hepatic; FJHN; HNF2; TCF2; HPC11; LF-B3;
Gene ID	6928
mRNA Refseq	NM_000458
Protein Refseq	NP_000449
MIM	189907
UniProt ID	P35680
Chromosome Location	17q12
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; Regulation of gene expression in late stage (branching morphogenesis) pancreatic bud precursor cells, organism-specific biosystem;
Function	DNA binding; protein binding; protein heterodimerization activity; protein homodimerization activity; protein homodimerization activity; sequence-specific DNA

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binding; sequence-specific DNA binding transcription factor activity; sequence-specific distal e

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