

**Goat Anti-TCF2 / VHNF1 Antibody**  
**Peptide-affinity purified goat antibody**  
**Catalog # AF2072a****Specification**

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**Goat Anti-TCF2 / VHNF1 Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">P35680</a>
Other Accession	<a href="#">NP_006472</a> , <a href="#">6928</a> , <a href="#">21410 (mouse)</a> , <a href="#">25640 (rat)</a>
Reactivity	Human
Predicted	Mouse, Rat, Zebrafish, Pig, Dog, Cow
Host	Goat
Clonality	Polyclonal
Concentration	100ug/200ul
Isotype	IgG
Calculated MW	61324

**Goat Anti-TCF2 / VHNF1 Antibody - Additional Information****Gene ID** 6928**Other Names**

Hepatocyte nuclear factor 1-beta, HNF-1-beta, HNF-1B, Homeoprotein LFB3, Transcription factor 2, TCF-2, Variant hepatic nuclear factor 1, vHNF1, HNF1B, TCF2

**Format**

0.5 mg IgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

Goat Anti-TCF2 / VHNF1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**Goat Anti-TCF2 / VHNF1 Antibody - Protein Information****Name** HNF1B**Synonyms** TCF2**Function**

Transcription factor that binds to the inverted palindrome 5'-GTTAATNATTAAC-3' (PubMed:&lt;a href="http://www.uniprot.org/citations/7900999" target="\_blank"&gt;7900999&lt;/a&gt;, PubMed:&lt;a href="http://www.uniprot.org/citations/17924661" target="\_blank"&gt;17924661&lt;/a&gt;). Binds to the

FPC element in the cAMP regulatory unit of the PLAU gene (By similarity). Transcriptional activity is increased by coactivator PCBD1 (PubMed:<a href="http://www.uniprot.org/citations/24204001" target="\_blank">24204001</a>).

**Cellular Location**

Nucleus.

**Goat Anti-TCF2 / VHNF1 Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**Goat Anti-TCF2 / VHNF1 Antibody - Images**

AF2072a (0.1 µg/ml) staining of Human Liver lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.



EB07588 (0.1µg/ml) staining of Human Liver lysate (35µg protein in RIPA buffer). Detected by chemiluminescence.

#### **Goat Anti-TCF2 / VHNF1 Antibody - Background**

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.

#### **Goat Anti-TCF2 / VHNF1 Antibody - References**

Meta-analysis of genome-wide and replication association studies on prostate cancer. Liu H, et al. Prostate, 2010 Aug 5. PMID 20690139.

COMMON VARIANTS IN 40 GENES ASSESSED FOR DIABETES INCIDENCE AND RESPONSE TO METFORMIN AND LIFESTYLE INTERVENTIONS IN THE DIABETES PREVENTION PROGRAM. Jablonski KA, et al. Diabetes, 2010 Aug 3. PMID 20682687.

Mutations in the hepatocyte nuclear factor-1beta (HNF1B) gene are common with combined uterine and renal malformations but are not found with isolated uterine malformations. Oram RA, et al. Am J Obstet Gynecol, 2010 Jul 14. PMID 20633866.

Variation at the NFATC2 Locus Increases the Risk of Thiazolinedione-Induced Edema in the Diabetes REduction Assessment with ramipril and rosiglitazone Medication (DREAM) Study. Bailey SD, et al. Diabetes Care, 2010 Jul 13. PMID 20628086.

Number of prostate cancer risk alleles may identify possibly 'insignificant' disease. Helfand BT, et al. BJU Int, 2010 Jun 30. PMID 20590552.