## **PRODUCT INFORMATION**

Product name : HNF1B antibody Product type : Primary antibodies Description : Rabbit polyclonal to HNF1B Immunogen : 3 synthetic peptides (human) conjugated to KLH Reacts with : Hu, Ms Tested applications : ELISA, WB and IF

## **GENE INFORMATION**

Gene Symbol : HNF1B Gene Name : HNF1 homeobox B Ensembl ID : ENSG00000108753 Entrez GeneID : 6928 GenBank Accession number : BC017714 Swiss-Prot : P35680

Molecular weight of HNF1B: 61.3 & 44.7kDa

Function : Transcription factor, probably binds to the inverted palindrome 5'-GTTAATNATTAAC-3'.

**Expected subcellular localization : nucleus.** 

Summary : 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]

## **APPLICATION NOTE**

**Recommended dilution :** 

- ELISA: Antibody specificity was verified by direct ELISA against the 3 immunogen peptides. A titer of 1/600 has been determined. Appropriate specificity controls were run.
- WB (recombinant protein): 1/250.
- WB (cell lysates): 1/125.
- IF: 1/500.

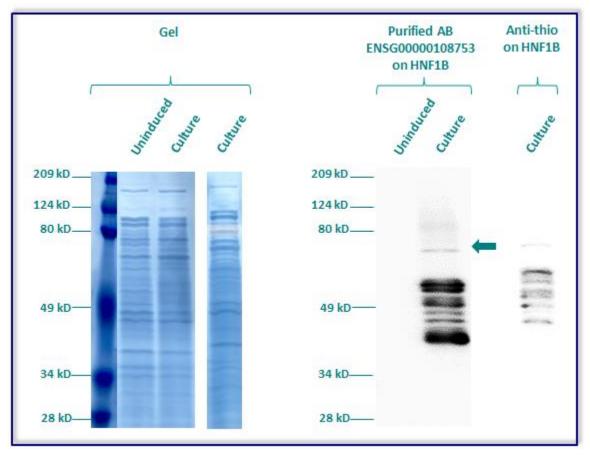
**Optimal dilutions/concentration should be determined by the end user.** 

Raised in : Rabbit Clonality : Polyclonal Isotype : IgG Purity : Purified antibody Storage buffer : Containing a final concentration of PBS/glycerol (V/V), 0.1% BSA and 0.01% Thimerosal. Form : Liquid Storage instruction : Store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. The purified antibody ENSG00000108753 has been tested at 1/250 on uninduced (negative control) and induced culture of E.coli (one shot Top10 competent cells). An anti-thio has been tested at 1/5000 on induced culture of E.coli (one shot Top10

competent cells) as a positive control.

Plasmid name : pBAD-DEST49.

Molecular weight of HNF1B : 75.3kDa (61.3kDa + another 14kDa for the tag).



**Gel concentration: 10%** 

Blocking: in 5% non-fat milk-PBST solution

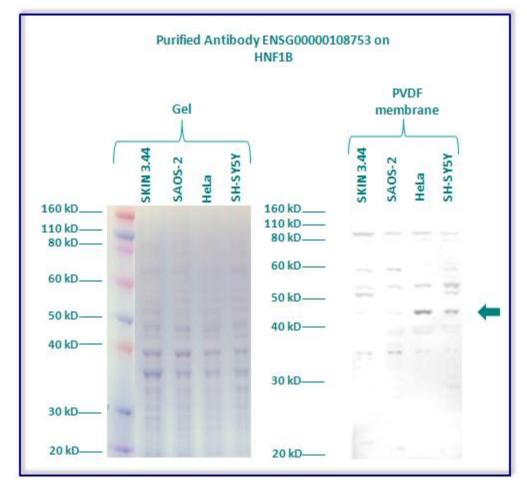
1<sup>st</sup> Antibody: The antibodies are diluted in blocking buffer.

- Dilute the purified antibody ENSG00000124216 at 1:250
- Dilute the anti-thio at 1:5000
- 60 minutes of incubation

2<sup>nd</sup> Antibody: The antibody is diluted in blocking buffer.

• Dilute the anti-Rabbit IgG HRP conjugated at 1/10000 60 minutes of incubation

The purified antibody ENSG00000108753 has been tested at a concentration of 1/125 on total protein extract of SKIN 3.44, SAOS-2, HeLa & SH-SY5Y cell lines. Molecular weight of HNF1B : 61.3 & 44.8kDa



**Gel concentration: 10%** 

Blocking: in 5% non-fat milk-PBST solution

1<sup>st</sup> Antibody: The antibodies are diluted in blocking buffer.

• Dilute the purified antibody ENSG00000124216 at 1:125 60 minutes of incubation

2<sup>nd</sup> Antibody: The antibody is diluted in blocking buffer.

• Dilute the anti-Rabbit IgG HRP conjugated at 1/10000 60 minutes of incubation

## IMMUNOFLUORESCENCE ANALYSIS

Immunofluorescence analysis of Hepatocyte nuclear factor 1-beta (HNF1B) expression in 5 cells lines (HELA, 293T/17, Capan-2, SH-SY5Y, Skin 3.44). The purified Antibody ENSG00000108753 has been tested at 1/500. Red staining : cytoskeleton (microtubules/α-tubuline) Blue staining : nucleus (Hoechst) Green staining : anti- HNF1B antibody (purified) Expected subcellular location : Nucleus

