

Product datasheet

Anti-HNF-4-alpha antibody ab36175

2 Images

Overview

Product name	Anti-HNF-4-alpha antibody
Description	Goat polyclonal to HNF-4-alpha
Host species	Goat
Specificity	This antibody is expected to recognise the reported isoforms a, b and c (NP_849180.1; NP_000448.3; NP_849181.1 resp.).
Tested applications	Suitable for: WB, IHC-P
Species reactivity	Reacts with: Mouse, Human
Immunogen	Synthetic peptide corresponding to Human HNF-4-alpha aa 2-15 (N terminal). Sequence: RLSKTLVDMDMADY

 [Run BLAST with](#)

 [Run BLAST with](#)

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	pH: 7.30 Preservative: 0.02% Sodium azide Constituents: 0.5% BSA, 0.5% Tris buffered saline
Purity	Immunogen affinity purified
Purification notes	Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab36175** in the following tested applications.

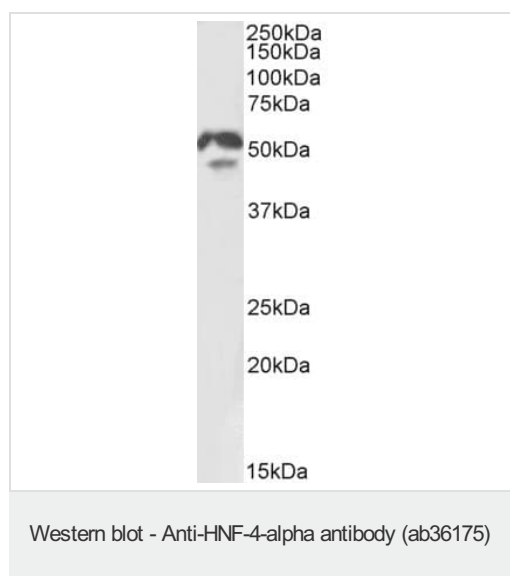
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		Use a concentration of 0.1 - 0.5 µg/ml. Detects a band of approximately 48, 55 kDa (predicted molecular weight: 50 kDa). 1 hour primary incubation is recommended for this product.
IHC-P		Use a concentration of 2 µg/ml. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

Target

Function	Transcriptionally controlled transcription factor. Binds to DNA sites required for the transcription of alpha 1-antitrypsin, apolipoprotein CIII, transthyretin genes and HNF1-alpha. May be essential for development of the liver, kidney and intestine.
Involvement in disease	Defects in HNF4A are the cause of maturity-onset diabetes of the young type 1 (MODY1) [MIM:125850]; also symbolized MODY-1. MODY is a form of diabetes that is characterized by an autosomal dominant mode of inheritance, onset in childhood or early adulthood (usually before 25 years of age), a primary defect in insulin secretion and frequent insulin-independence at the beginning of the disease.
Sequence similarities	Belongs to the nuclear hormone receptor family. NR2 subfamily. Contains 1 nuclear receptor DNA-binding domain.
Post-translational modifications	Phosphorylated on tyrosine residue(s); phosphorylation is important for its DNA-binding activity. Phosphorylation may directly or indirectly play a regulatory role in the subnuclear distribution.
Cellular localization	Nucleus.

Images



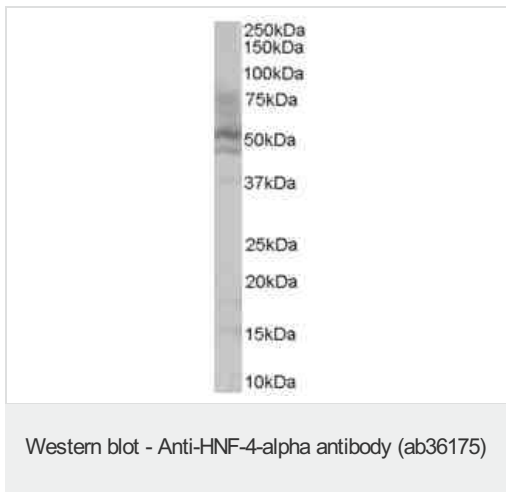
Anti-HNF-4-alpha antibody (ab36175) at 0.5 µg/ml + Mouse Small Intestine tissue lysate at 35 µg

Predicted band size: 50 kDa

Observed band size: 55, 48 kDa

[why is the actual band size different from the predicted?](#)

Primary incubation was 1 hour.



Anti-HNF-4-alpha antibody (ab36175) at 0.1 µg/ml + HepG2 lysate (35µg protein in RIPA buffer).

Predicted band size: 50 kDa

Primary incubation was 1 hour. Detected by chemiluminescence.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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