



HNF4- α (phospho Ser313) Polyclonal Antibody

Catalog No	YP-Ab-01400
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB;IHC;IF;ELISA
Gene Name	HNF4A
Immunogen	The antiserum was produced against synthesized peptide derived from human HNF4 alpha around the phosphorylation site of Ser313. AA range:280-329
Specificity	Phospho-HNF4- α (S313) Polyclonal Antibody detects endogenous levels of HNF4- α protein only when phosphorylated at S313.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/20000. Not yet tested in other applications.
Concentration	1 mg/ml
Purity	$\geq 90\%$
Storage Stability	-20°C/1 year
Synonyms	FLJ39654;FRTS4;Hepatic nuclear factor 4 alpha;Hepatocyte nuclear factor 4 alpha;Hepatocyte nuclear factor 4;Hepatocyte nuclear factor 4-alpha;HNF 4 alpha;HNF 4;HNF-4-alpha;HNF4;HNF4A;HNF4A_HUMAN;HNF4a7;HNF4a8;HNF4a9;Hnf4alpha;HNF4alpha10/11/12;MODY 1;MODY;MODY1;NR2A1;NR2A21;Nuclear receptor subfamily 2 group A member 1;OTTHUMP00000031060;OTTHUMP00000031062;TCF 14;TCF;TCF-14;TCF14;Tcf4;Transcription factor 14;hepatic nuclear factor;Transcription factor HNF 4;Transcription factor HNF-4;Transcription factor HNF4;HNF4 α
Observed Band	52kD
Calculated Molecular Weight	52kD
Cell Pathway	Nucleus.
Tissue Specificity	Kidney,Liver,
Function	alternative products:Additional isoforms seem to exist,disease:Defects in HNF4A are the cause of maturity onset diabetes of the young type 1 (MODY1) [MIM:125850]; also shortened MODY-1. MODY [MIM:606391] 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) and a primary defect in insulin secretion. The clinical phenotype of MODY1 is characterized by severe insulin secretory defects, and by major hyperglycemia associated with microvascular complications.,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., miscellaneous: Binds fatty acids.,online information:Hepatocyte nuclear fac

Background

The protein encoded by this gene is a nuclear transcription factor which binds DNA as a homodimer. The encoded protein controls the expression of several genes, including hepatocyte nuclear factor 1 alpha, a transcription factor which regulates the expression of several hepatic genes. This gene may play a role in development of the liver, kidney, and intestines. Mutations in this gene have been associated with monogenic autosomal dominant non-insulin-dependent diabetes mellitus type I. Alternative splicing of this gene results in multiple transcript variants encoding several different isoforms. [provided by RefSeq, Apr 2012],

matters needing attention

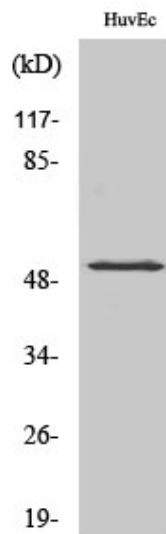
Avoid repeated freezing and thawing!

Usage suggestions

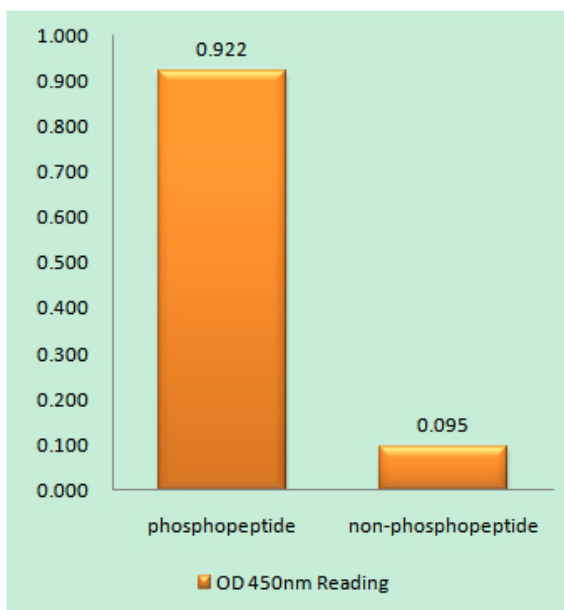
This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



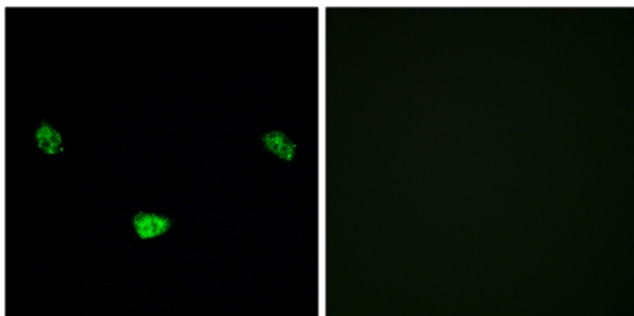
Products Images



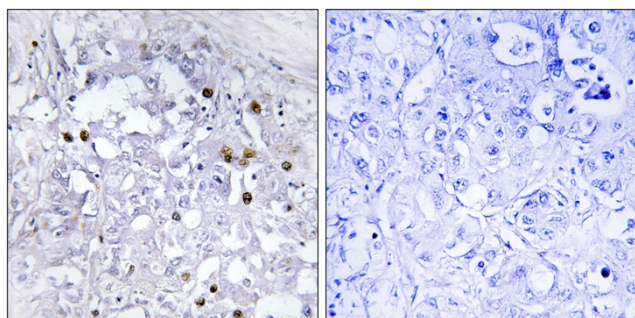
Western Blot analysis of various cells using Phospho-HNF4- α (S313) Polyclonal Antibody diluted a 1:1000



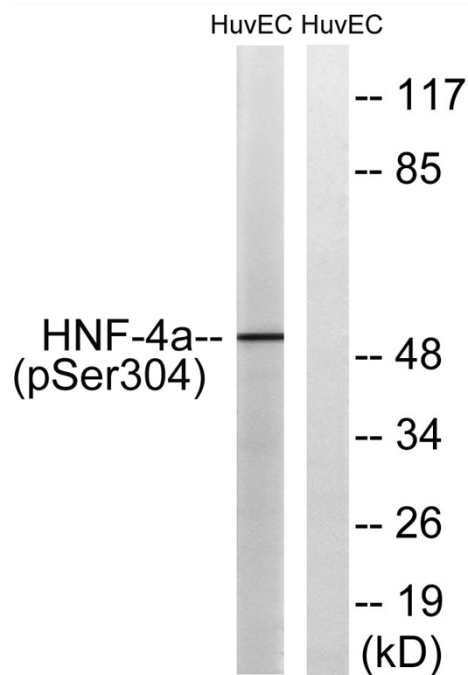
Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using HNF4 alpha (Phospho-Ser313) Antibody



Immunofluorescence analysis of LOVO cells, using HNF4 alpha (Phospho-Ser313) Antibody. The picture on the right is blocked with the phospho peptide.



Immunohistochemistry analysis of paraffin-embedded human liver carcinoma, using HNF4 alpha (Phospho-Ser313) Antibody. The picture on the right is blocked with the phospho peptide.



Western blot analysis of lysates from HUVEC cells treated with EGF 200ng/ml 30', using HNF4 alpha (Phospho-Ser313) Antibody. The lane on the right is blocked with the phospho peptide.