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HNF4A Antibody (S142)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP2778a

Product Information

Application	WB, E
Primary Accession	P41235
Other Accession	Q91766, P22449, P49698, NP_849180
Reactivity	Human
Predicted	Mouse, Rat, Xenopus, Bovine, Canine, Rabbit, Chicken
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB16247
Calculated MW	52785
Antigen Region	118-146

Additional Information

Gene ID	3172
Other Names	Hepatocyte nuclear factor 4-alpha, HNF-4-alpha, Nuclear receptor subfamily 2 group A member 1, Transcription factor 14, TCF-14, Transcription factor HNF-4, HNF4A, HNF4, NR2A1, TCF14
Target/Specificity	This HNF4A antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 118-146 amino acids from human HNF4A.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.05% (V/V) Proclin 300. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	HNF4A Antibody (S142) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	HNF4A
Synonyms	HNF4, NR2A1, TCF14

Function	Transcriptional regulator which controls the expression of hepatic genes during the transition of endodermal cells to hepatic progenitor cells, facilitating the recruitment of RNA pol II to the promoters of target genes (PubMed:30597922). Activates the transcription of CYP2C38 (By similarity). Represses the CLOCK-BMAL1 transcriptional activity and is essential for circadian rhythm maintenance and period regulation in the liver and colon cells (PubMed:30530698).
Cellular Location	Nucleus.

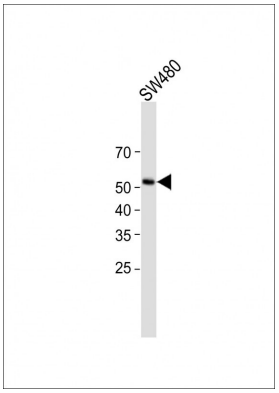
Background

HNF4A is a nuclear transcription factor which binds DNA as a homodimer. This 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 protein may play a role in development of the liver, kidney, and intestines. Mutations in this protein have been associated with monogenic autosomal dominant non-insulin-dependent diabetes mellitus type I.

References

Sugai,M., Pathol. Int. 58 (11), 681-686 (2008)
Lee,S.S., Hepatology 48 (2), 635-645 (2008)
Guo,H., Biochem. J. 394 (PT 2), 379-387 (2006)
Hong,Y.H., J. Biol. Chem. 278 (30), 27495-27501 (2003)

Images



All lanes : Anti-HNF4A Antibody (S142) at 1:500 dilution + SW480 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary: Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (ASP1615) at 1/15000 dilution. Observed band size : 52kDa Blocking/Dilution buffer: 5% NFDM/TBST.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.