For Research Use Only

NR1I3 Polyclonal antibody

Catalog Number:21042-1-AP Featured Product 5 Publications

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Basic Information

Catalog Number:
21042-1-AP

Size:
150ul , Concentration: 300 ug/ml by Nanodrop and 247 ug/ml by Bradford method using BSA as the standard;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG15378

GenBank Accession Number:
BC069651

GeneID (NCBI):
9970

UNIPROT ID:
Q14994

Full Name:
nuclear receptor subfamily 1, group I, member 3

Calculated MW:
352 aa, 40 kDa

Observed MW:
45 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:500-1:3000
IHC 1:250-1:1000

Applications

Tested Applications:
WB, IHC, ELISA

Cited Applications:
WB

Species Specificity:
human, mouse, rat

Cited Species:
human, mouse

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : HeLa cells, HepG2 cells, L02 cells

IHC : mouse kidney tissue, rat liver tissue

Background Information

The nuclear hormone receptor superfamily is a large group of related transcription factors which includes members that bind a diverse array of ligands, including steroids, retinoic acid, thyroid hormone, and vitamin D. Nuclear hormone receptors contain a DNA-binding domain (DBD) and a ligand-binding domain [PMID: 10221899]. Nuclear receptor subfamily 1 group I member 3 (NR1I3; CAR), binds and transactivates the retinoic acid response elements that control expression of the retinoic acid receptor beta 2 and alcohol dehydrogenase 3 genes. It is expressed primarily in liver and regulates the expression of genes involved in xenobiotic metabolism as well as hormone, energy, and lipid homeostasis [PMID:22896671].

Notable Publications

Author	Pubmed ID	Journal	Application
Na Yao	31611795	Front Pharmacol	WB
Qingqing Hu	30414935	Biochem Pharmacol	WB
Han Li	33896369	Xenobiotica	WB

Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
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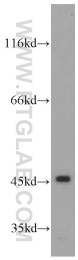
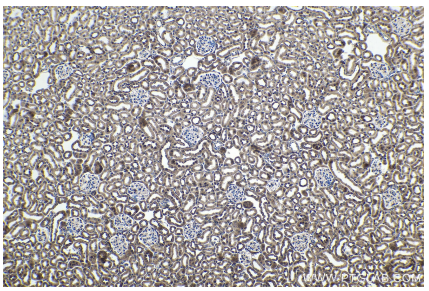
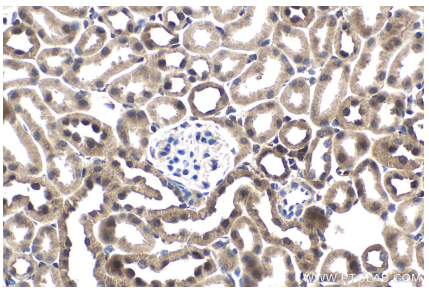
Selected Validation Data



HeLa cells were subjected to SDS PAGE followed by western blot with 21042-1-AP (NR1I3 antibody) at dilution of 1:300 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse kidney tissue slide using 21042-1-AP (NR1I3 antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse kidney tissue slide using 21042-1-AP (NR1I3 antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).