

For Research Use Only

NR1H4 Recombinant antibody

Catalog Number: 81820-2-RR

Featured Product



Basic Information

Catalog Number:

81820-2-RR

Size:

100ul, Concentration: 800 ug/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG21948

GenBank Accession Number:

BC130573

GeneID (NCBI):

9971

UNIPROT ID:

Q96RI1

Full Name:

nuclear receptor subfamily 1, group H, member 4

Calculated MW:

486 aa, 56 kDa

Observed MW:

48 kDa

Purification Method:

Protein A purification

CloneNo.:

4B4

Recommended Dilutions:

WB: 1:2000-1:10000

FC (Intra): 0.25 ug per 10⁶ cells in a 100 µl suspension

Applications

Tested Applications:

WB, FC (Intra), ELISA

Species Specificity:

human

Positive Controls:

WB: MKN-45 cells, HepG2 cells, HEK-293 cells

FC (Intra): HepG2 cells,

Background Information

Nuclear Receptor subfamily 1, group H, member 4 (NR1H4, also known as FXR) is a receptor for bile acids and has an important role in regulating energy metabolism in liver, muscle and adipose tissues in humans and animals. NR1H4 is highly expressed in liver and has a role in lipid metabolism, whereas none of the other protein-coding genes in the region has known biological links with cholesterol, further supporting a role for NR1H4 in regulation of cholesterol levels. NR1H4 have four isoforms, i.e., FXRalpha1, FXRalpha2, FXRbeta1, and FXRbeta2, and each isoform has a different expressional level and transcriptional activity depending on its location within specific tissues. (PMID: 14733360, PMID: 30787420)

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

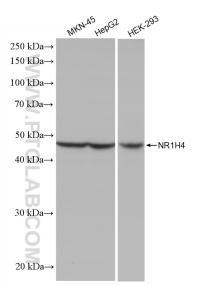
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

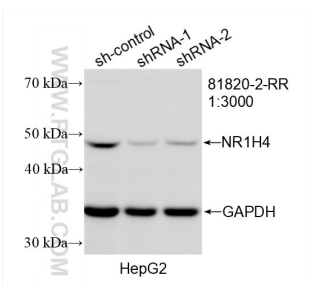
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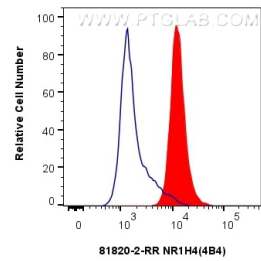
Selected Validation Data



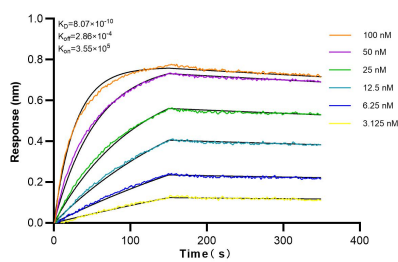
Various lysates were subjected to SDS PAGE followed by western blot with 81820-2-RR (NR1H4 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



WB result of NR1H4 antibody (81820-2-RR; 1:3000; incubated at room temperature for 1.5 hours) with sh-Control and sh-NR1H4 transfected HepG2 cells.



1x10⁶ HepG2 cells were intracellularly stained with 0.25 ug NR1H4 Recombinant antibody (81820-2-RR, Clone:4B4) and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2)(red), or 0.25 ug Rabbit IgG Isotype Control Recombinant Antibody (98136-1-RR, Clone: 240953C9) (blue). Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).



Biolayer interferometry (BLI) kinetic assays of 81820-2-RR against Human NR1H4 were performed. The affinity constant is 0.807 nM.