

Rabbit NR1H3 Polyclonal Antibody | anti-NR1H3 antibody

Anti-NR1H3 Antibody Picoband

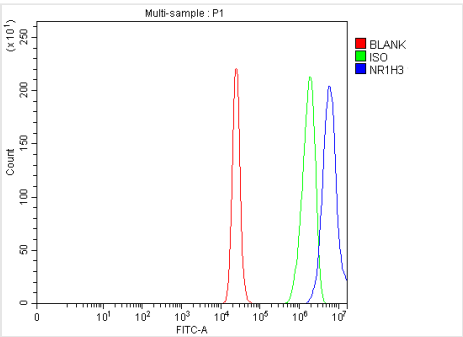
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127171	Rabbit	Human, Mouse, Rat	ELISA, Flow Cytometry, Functional Assay, Western Blot

PRODUCT SYNONYMS

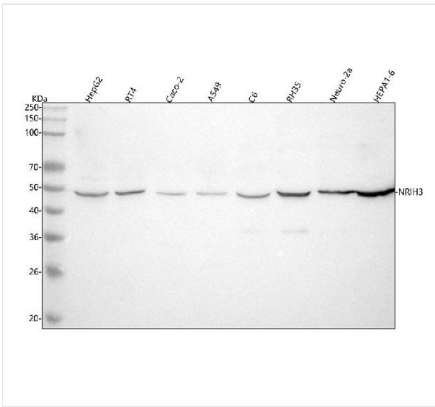
NR1H3; Polyclonal Antibody; Anti-NR1H3 Antibody Picoband; anti-NR1H3 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Applicable Applications for anti-NR1H3 antibody	ELISA, FCM/FACS (Flow Cytometry), WB (Western Blot)
Immunogen	E coli-derived human NR1H3 recombinant protein (Position: D11-R401). Human NR1H3 shares 91.3% and 90.5% amino acid (aa) sequence identity with mouse and rat NR1H3, respectively.
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml.
Preparation and Storage	At -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months.Avoid repeated freezing and thawing.



FCM/FACS (Flow Cytometry)
Figure 2. Flow Cytometry analysis of RT4 cells using anti-NR1H3 antibody (AAA127171). Overlay histogram showing RT4 cells stained with AAA127171 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-NR1H3 Antibody (AAA127171, 1ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



WB (Western Blot)
Figure 1. Western blot analysis of NR1H3 using anti-NR1H3 antibody (AAA127171). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human HepG2 whole cell lysates, Lane 2: human RT4 whole cell lysates, Lane 3: human Caco-2 whole cell lysates, Lane 4: human A549 whole cell lysates, Lane 5: rat C6 whole cell lysates, Lane 6: rat RH35 whole cell lysates, Lane 7: mouse Neuro-2a whole cell lysates, Lane 8: mouse HEPA1-6 whole cell lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-NR1H3 antigen affinity purified polyclonal antibody (#AAA127171) at 0.5ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for NR1H3 at approximately 50 kDa. The expected band size for NR1H3 is at 50 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-NR1H3 antibody	The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Product Categories/Family for anti-NR1H3 antibody	Primary Antibodies
References	1. Willy, P. J.; Umesono, K.; Ong, E. S.; Evans, R. M.; Heyman, R. A.; Mangelsdorf, D. J. : LXR, a nuclear receptor that defines a distinct retinoid response pathway. Genes Dev. 9: 1033-1045, 1995. 2. Tangirala, R. K.; Bischoff, E. D.; Joseph, S. B.; Wagner, B. L.; Walczak, R.; Laffitte, B. A.; Daige, C. L.; Thomas, D.; Heyman, R. A.; Mangelsdorf, D. J.; Wang, X.; Lusis, A. J.; Tontonoz, P.; Schulman, I. G. : Identification of macrophage liver X receptors as inhibitors of atherosclerosis. Proc. Nat. Acad. Sci. 99: 11896-11901, 2002.3. Joseph, S. B.; Castrillo, A.; Laffitte, B. A.; Mangelsdorf, D. J.; Tontonoz, P. : Reciprocal regulation of inflammation and lipid metabolism by liver X receptors. Nature Med. 9: 213-219, 2003. 4. Mitro, N.; Mak, P. A.; Vargas, L.; Godio, C.; Hampton, E.; Molteni, V.; Kreusch, A.; Saez, E. : The nuclear receptor LXR is a glucose sensor. Nature 445: 219-223, 2007. 5. Zelcer, N.; Hong, C.; Boyadjian, R.; Tontonoz, P. : LXR regulates cholesterol uptake through Idol-dependent ubiquitination of the LDL receptor. Science 325: 100-104, 2009.

NCBI AND UNIPROT INFORMATION

NCBI GI #	23503089
NCBI GeneID	10062
UniProt Accession #	Q13133; Q8IW13; Q96H87; A8K3J9; D3DQR1
Molecular Weight	447
NCBI Official Full Name	Oxysterols receptor LXR-alpha
NCBI Official Synonym Full Names	nuclear receptor subfamily 1, group H, member 3

NCBI Official Symbol	NR1H3
NCBI Official Synonym Symbols	LXRA; LXR-a; RLD-1
NCBI Protein Information	oxysterols receptor LXR-alpha; liver X nuclear receptor alpha variant 1
UniProt Protein Name	Oxysterols receptor LXR-alpha
UniProt Gene Name	NR1H3
UniProt Synonym Gene Names	LXRA
UniProt Entry Name	NR1H3_HUMAN

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/nr1h3-antibody-flow-cytometry-western-blot-elisa/127171>