

Rabbit anti-Human, Mouse LXR beta/NER/NR1H2 Polyclonal Antibody | anti-NR1H2 antibody

Anti-LXR beta/NER/NR1H2 Antibody

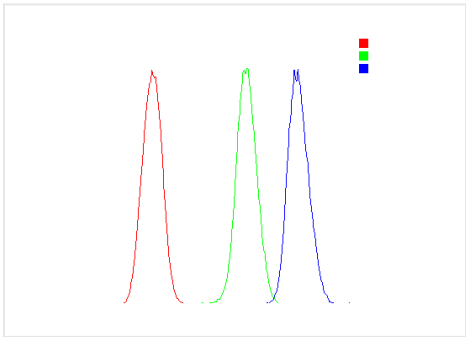
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA125726	Rabbit	Human, Mouse	ELISA, Flow Cytometry, Functional Assay, Immunofluorescence, Immunocytochemistry, Western Blot

PRODUCT SYNONYMS

LXR beta/NER/NR1H2; Polyclonal Antibody; Anti-LXR beta/NER/NR1H2 Antibody; NR1H2; LXRβ; NER; UNR; Oxysterols receptor LXR-beta; Liver X receptor beta; Nuclear receptor NER; Nuclear receptor subfamily 1 group H member 2; Ubiquitously-expressed nuclear receptor; nuclear receptor subfamily 1 group H member 2; anti-NR1H2 antibody

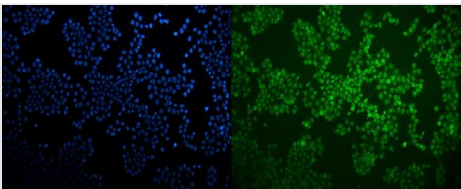
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Rabbit IgG polyclonal antibody for LXR beta/NER/NR1H2 detection.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na2HPO4, 0.005mg NaN3.
Applicable Applications for anti-NR1H2 antibody	ELISA (Direct ELISA), FCM/FACS (Flow Cytometry), IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot)
Immunogen	E Coli-derived human LXR beta/NER/NR1H2 recombinant protein (Position: K31-A342).
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Recommended Detection Systems	Recommended Detection Systems
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.



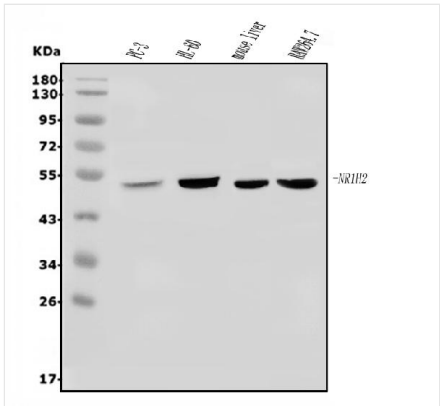
FCM/FACS (Flow Cytometry)

Figure 3. Flow Cytometry analysis of U2OS cells using anti-LXR beta/NER/NR1H2 antibody (AAA125726).Overlay histogram showing U2OS cells stained with AAA125726 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-LXR beta/NER/NR1H2 Antibody (AAA125726, 1μg/1x106 cells) for 30 min at 20 degree C. DyLight®488 conjugated goat anti-rabbit IgG (5-10μg/1x106 cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1μg/1x106) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



IF (Immunofluorescence)

Figure 2. IF analysis of LXR beta/NER/NR1H2 using anti- LXR beta/NER/NR1H2 antibody (AAA125726).LXR beta/NER/NR1H2 was detected in immunocytochemical section of MCF-7 cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5μg/mL rabbit anti-LXR beta/NER/NR1H2 Antibody (AAA125726) overnight at 4 degree C. DyLight®488 Conjugated Goat Anti-Rabbit IgG was used as secondary antibody at 1:100 dilution and incubated for 30 minutes at 37 degree C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



WB (Western Blot)

Figure 1. Western blot analysis of LXR beta/NER/NR1H2 using anti-LXR beta/NER/NR1H2 antibody (AAA125726).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 50ug of sample under reducing conditions.Lane 1: human PC-3 whole cell lysatesLane 2: human HL-60 whole cell lysatesLane 3: mouse liver tissue lysatesLane 4: mouse RAW264. 7 whole cell lysates.After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA 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-LXR beta/NER/NR1H2 antigen affinity purified polyclonal antibody (Catalog # AAA125726) at 0. 5 μg/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 LXR beta/NER/NR1H2 at approximately 50KD. The expected band size for LXR beta/NER/NR1H2 is at 50KD.

ADDITIONAL INFORMATION

Related Product Information for anti-NR1H2 antibody

Liver X receptor beta (LXR-beta) is a member of the nuclear receptor family of transcription factors. LXR-beta is encoded by the NR1H2 gene (nuclear receptor subfamily 1, group H, member 2). The liver X receptors, LXRA (NR1H3; MIM 602423) and LXRβ, form a subfamily of the nuclear receptor superfamily and are key regulators of macrophage function, controlling transcriptional programs involved in lipid homeostasis and inflammation. The inducible LXRA is highly expressed in liver, adrenal gland, intestine, adipose tissue, macrophages, lung, and kidney, whereas LXRβ is ubiquitously expressed. Ligand-activated LXRs form obligate heterodimers with retinoid X receptors (RXRs; see MIM 180245) and regulate expression of target genes containing LXR response elements.

References	1. Andersson, S., Gustafsson, N., Warner, M., Gustafsson, J. -A. Inactivation of liver X receptor beta leads to adult-onset motor neuron degeneration in male mice. Proc. Nat. Acad. Sci. 102: 3857-3862, 2005. Note: Erratum: Proc. Nat. Acad. Sci. 103: 8298 only, 2006. 2. Bensinger, S. J., Bradley, M. N., Joseph, S. B., Zelcer, N., Janssen, E. M., Hausner, M. A., Shih, R., Parks, J. S., Edwards, P. A., Jamieson, B. D., Tontonoz, P. LXR signaling couples sterol metabolism to proliferation in the acquired immune response. Cell 134: 97-111, 2008. 3. Bradley, M. N., Hong, C., Chen, M., Joseph, S. B., Wilpitz, D. C., Wang, X., Lusis, A. J., Collins, A., Hseuh, W. A., Collins, J. L., Tangirala, R. K., Tontonoz, P. Ligand activation of LXR-beta reverses atherosclerosis and cellular cholesterol overload in mice lacking LXR-alpha and apoE. J. Clin. Invest. 117: 2337-2346, 2007.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	375331888
NCBI GeneID	7376
NCBI Accession #	NP_001243576.1
NCBI GenBank Nucleotide #	NM_001256647.1
UniProt Accession #	P55055; Q12970; Q5I0Y1; A8K490; B4DNM6; E7EWA6
Molecular Weight	39,920 Da
NCBI Official Full Name	oxysterols receptor LXR-beta isoform 2
NCBI Official Synonym Full Names	nuclear receptor subfamily 1, group H, member 2
NCBI Official Symbol	NR1H2
NCBI Official Synonym Symbols	NER; UNR; LXRβ; LXR-b; NER-I; RIP15
NCBI Protein Information	oxysterols receptor LXR-beta; LX receptor beta; liver X nuclear receptor beta; nuclear orphan receptor LXR-beta; nuclear receptor NER; steroid hormone-nuclear receptor NER; ubiquitously-expressed nuclear receptor
UniProt Protein Name	Oxysterols receptor LXR-beta
UniProt Gene Name	NR1H2
UniProt Synonym Gene Names	LXRβ; NER; UNR
UniProt Entry Name	NR1H2_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.