

Rabbit anti-Mouse, Rat Nr0b2 Polyclonal Antibody | anti-NR0B2 antibody

Anti-Nr0b2 Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA126338	Rabbit	Mouse, Rat	Western Blot, Immunocytochemistry, Immunofluorescence, Flow Cytometry, Functional Assay, ELISA

PRODUCT SYNONYMS

Nr0b2; Polyclonal Antibody; Anti-Nr0b2 Antibody Picoband; anti-NR0B2 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
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 .
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml. (varies by lot)
Applicable Applications for anti-NR0B2 antibody	WB (Western Blot), ICC (Immunocytochemistry), IF (Immunofluorescence), FCM/FACS (Flow Cytometry), ELISA
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Immunogen	E Coli-derived mouse Nr0b2 recombinant protein (Position: A54-R219).
Preparation and Storage	Store 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.

IMAGES



FCM/FACS (Flow Cytometry)

Figure 3. Flow Cytometry analysis of ANA-1 cells using anti-Nr0b2 antibody (AAA126338). Overlay histogram showing ANA-1 cells stained with AAA126338 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-Nr0b2 Antibody (AAA126338, 1 ug/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 (1 ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



IF (Immunofluorescence)

Figure 2. IF analysis of Nr0b2 using anti-Nr0b2 antibody (AAA126338). Nr0b2 was detected in an immunocytochemical section of RM-1 cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent (AR0022) for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5 ug/mL rabbit anti-Nr0b2 Antibody (AAA126338) overnight at 4 degree C. DyLight488 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 Nr0b2 using anti-Nr0b2 antibody (AAA126338). 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: rat liver tissue lysates, Lane 2: mouse liver tissue 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-Nr0b2 antigen affinity purified polyclonal antibody (#AAA126338) at 0.5 ug/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 Nr0b2 at approximately 28 kDa. The expected band size for Nr0b2 is at 28 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-NR0B2 antibody	The small heterodimer partner (SHP) also known as NR0B2 (nuclear receptor subfamily 0, group B, member 2) is a protein that in humans is encoded by the NR0B2 gene. This gene encodes a member of the nuclear hormone receptor family of proteins. The encoded orphan receptor lacks a DNA binding domain but modulates gene expression by interacting with other hormone receptors to competitively inhibit binding of coactivators while also acting as a transcriptional corepressor. The encoded receptor may regulate bile acid synthesis and sexual maturation in males. Homozygous knockout mice exhibit accumulation of bile acids, reduced levels of low density lipoprotein cholesterol (LDL-C), and in male mice, earlier testicular maturation.
Product Categories/Family for anti-NR0B2 antibody	Primary Antibodies, Rabbit Polyclonal Antibodies

NCBI AND UNIPROT INFORMATION

NCBI GI #	6754886
NCBI GeneID	23957
NCBI Accession #	NP_035980.1
NCBI GenBank Nucleotide #	NM_011850.2
UniProt Accession #	Q62227; Q53Z53
Molecular Weight	28,763 Da
NCBI Official Full Name	nuclear receptor subfamily 0 group B member 2
NCBI Official Synonym Full Names	nuclear receptor subfamily 0, group B, member 2
NCBI Official Symbol	Nr0b2
NCBI Official Synonym Symbols	SHP; Shp1; SHP-1
NCBI Protein Information	nuclear receptor subfamily 0 group B member 2; small heterodimer partner; orphan nuclear receptor SHP
UniProt Protein Name	Nuclear receptor subfamily 0 group B member 2
UniProt Gene Name	Nr0b2
UniProt Synonym Gene Names	Shp
UniProt Entry Name	NR0B2_MOUSE

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.

