Product datasheet

Anti-NR1D1 Antibody

Catalog Number: *A01077-2*

BOSTER®
antibody and ELISA experts
BOSTER BIOLOGICAL TECHNOLOGY
Building C21, 3rd to 5th Floors, Optics Valley Biopharmaceutical Accelerator,
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Basic Information

Product Name	Anti-NR1D1 Antibody
Gene Name	NR1D1
Source	Rabbit
Clonality	Polyclonal
Isotype	IgG
Species Reactivity	human, mouse, rat
Tested Application	WB, IHC, FCM
Contents	500 ug/ml antibody with PBS, 0.02% NaN3, 1 mg/ml BSA and 50% glycerol.
Immunogen	A synthetic peptide corresponding to a sequence in the middle region of human NR1D1. Human NR1D1 shares 100% amino acid (aa) sequence identity with both mouse and rat NR1D1.
Concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	67 kDa
Dilution Ratios	Western blot (WB): 1:500-2000 Immunohistochemistry (IHC): 1:50-400 Flow Cytometry (Fixed): 1:50-200 (Boiling the paraffin sections in 10mM citrate buffer,pH6.0,or PH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user.

Storage

12 months from date of receipt, -20℃ as supplied. 6 months 2 to 8℃ after reconstitution. Avoid repeated freezing and thawing.

Background Information

This gene encodes a transcription factor that is a member of the nuclear receptor subfamily 1. The encoded protein is a ligand-sensitive transcription factor that negatively regulates the expression of core clock proteins. In particular this protein represses the circadian clock transcription factor aryl hydrocarbon receptor nuclear translocator-like protein 1 (ARNTL). This protein may also be involved in regulating genes that function in metabolic, inflammatory and

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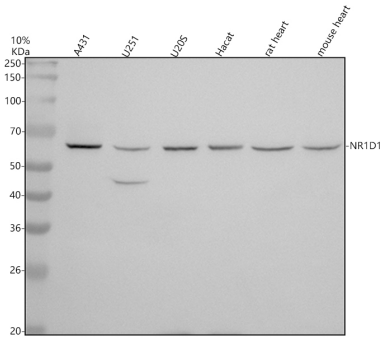
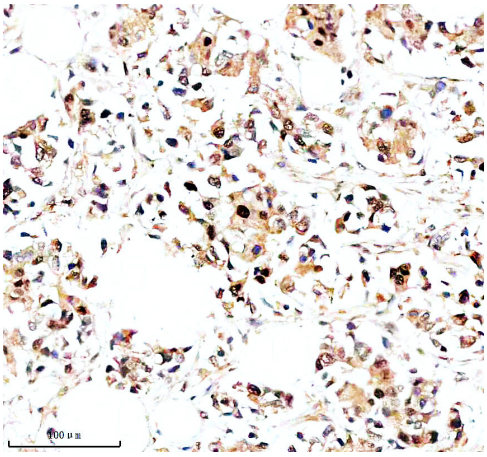
cardiovascular processes.

Selected Validation Data



Western blot analysis of NR1D1 using anti-NR1D1 antibody (A01077-2). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.
Lane 1: human A431 whole cell lysates,
Lane 2: human U251 whole cell lysates,
Lane 3: human U2OS whole cell lysates,
Lane 4: human Hacat whole cell lysates,
Lane 5: rat heart tissue lysates,
Lane 6: mouse heart tissue lysates.
After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-NR1D1 antigen affinity purified polyclonal antibody (A01077-2) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for NR1D1 at approximately 67 kDa. The expected band size for NR1D1 is at 67 kDa.



IHC analysis of NR1D1 using anti-NR1D1 antibody (A01077-2). NR1D1 was detected in a paraffin-embedded section of human breast cancer tissue. The tissue section was incubated with rabbit anti-NR1D1 Antibody (A01077-2) at a dilution of 1:200 and developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB (Catalog # AR1027) as the chromogen.

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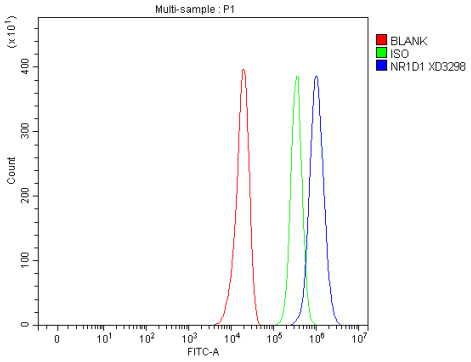

Flow Cytometry analysis of U251 cells using anti-NR1D1 antibody (A01077-2).

Overlay histogram showing U251 cells stained with A01077-2 (Blue line). The cells were fixed with 4% paraformaldehyde and blocked with 10% normal goat serum. And then incubated with rabbit anti-NR1D1 Antibody (A01077-2) at 1:100 dilution for 30 min at 20°C. Fluoro488 conjugated goat anti-rabbit IgG (BA1127) was used as secondary antibody at 1:100 dilution for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG at 1:100 dilution used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.