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Datasheet for ABIN7161737 anti-NR1D2 antibody (AA 14-318) (Biotin)



Overview

Quantity:	100 µg
Target:	NR1D2
Binding Specificity:	AA 14-318
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This NR1D2 antibody is conjugated to Biotin
Application:	ELISA

Product Details

Immunogen:	Recombinant Human NR1D2 protein (14-318AA)
lsotype:	lgG
Cross-Reactivity:	Human
Purification:	>95%, Protein G purified

Target Details

Target:	NR1D2
Alternative Name:	NR1D2 (NR1D2 Products)
Background:	Background: Transcriptional repressor which coordinates circadian rhythm and metabolic
	pathways in a heme-dependent manner. Integral component of the complex transcription

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machinery that governs circadian rhythmicity and forms a critical negative limb of the circadian
clock by directly repressing the expression of core clock components ARNTL/BMAL1 and
CLOCK. Also regulates genes involved in metabolic functions, including lipid metabolism and
the inflammatory response. Acts as a receptor for heme which stimulates its interaction with
the NCOR1/HDAC3 corepressor complex, enhancing transcriptional repression. Recognizes
two classes of DNA response elements within the promoter of its target genes and can bind to
DNA as either monomers or homodimers, depending on the nature of the response element.
Binds as a monomer to a response element composed of the consensus half-site motif 5\\\'-
[A/G]GGTCA-3\\\' preceded by an A/T-rich 5\\\' sequence (RevRE), or as a homodimer to a
direct repeat of the core motif spaced by two nuclegotides (RevDR-2). Acts as a potent
competitive repressor of ROR alpha (RORA) function and also negatively regulates the
expression of NR1D1. Regulates lipid and energy homeostasis in the skeletal muscle via
repression of genes involved in lipid metabolism and myogenesis including: CD36, FABP3,
FABP4, UCP3, SCD1 and MSTN. Regulates hepatic lipid metabolism via the repression of
APOC3. Represses gene expression at a distance in macrophages by inhibiting the transcription
of enhancer-derived RNAs (eRNAs). In addition to its activity as a repressor, can also act as a
transcriptional activator. Acts as a transcriptional activator of the sterol regulatory element-
binding protein 1 (SREBF1) and the inflammatory mediator interleukin-6 (IL6) in the skeletal
muscle.
Aliases: Nuclear receptor subfamily 1 group D member 2 (Orphan nuclear hormone receptor
BD73) (Rev-erb alpha-related receptor) (RVR) (Rev-erb-beta) (V-erbA-related protein 1-related)

(EAR-1R), NR1D2

UniProt:	Q6NSM0
Pathways:	Nuclear Receptor Transcription Pathway, Steroid Hormone Mediated Signaling Pathway
Application Details	
Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Buffer:	Preservative: 0.03 % Proclin 300

Constituents: 50 % Glycerol, 0.01M PBS, pH 7.4

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Handling

Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C,-80 °C
Storage Comment:	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.