

## Datasheet for ABIN7161896 anti-NR1D1 antibody (AA 246-558) (HRP)



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Quantity: 100 µg  Target: NR1D1  Binding Specificity: AA 246-558  Reactivity: Human  Host: Rabbit  Clonality: Polyclonal  Conjugate: This NR1D1 antibody is conjugated to HRP  Application: ELISA  Product Details  Immunogen: Recombinant Human Nuclear receptor subfamily 1 group D member 1 protein (246-558AA)  Isotype: IgG  Cross-Reactivity: Human  Purification: >95%, Protein G purified  Target Details  Target: NR1D1  Alternative Name: NR1D1 (NR1D1 Products)  Background: Transcriptional repressor which coordinates circadian rhythm and metabolic			
Binding Specificity: AA 246-558  Reactivity: Human  Host: Rabbit  Clonality: Polyclonal  Conjugate: This NR1D1 antibody is conjugated to HRP  Application: ELISA  Product Details  Immunogen: Recombinant Human Nuclear receptor subfamily 1 group D member 1 protein (246-558AA)  Isotype: IgG  Cross-Reactivity: Human  Purification: >95%, Protein G purified  Target Details  Target: NR1D1  Alternative Name: NR1D1 (NR1D1 Products)	Quantity:	100 μg	
Reactivity: Human  Host: Rabbit  Clonality: Polyclonal  Conjugate: This NR1D1 antibody is conjugated to HRP  Application: ELISA  Product Details  Immunogen: Recombinant Human Nuclear receptor subfamily 1 group D member 1 protein (246-558AA)  Isotype: IgG  Cross-Reactivity: Human  Purification: >95%, Protein G purified  Target Details  Target: NR1D1  Alternative Name: NR1D1 (NR1D1 Products)	Target:	NR1D1	
Host: Rabbit Clonality: Polyclonal Conjugate: This NR1D1 antibody is conjugated to HRP Application: ELISA Product Details Immunogen: Recombinant Human Nuclear receptor subfamily 1 group D member 1 protein (246-558AA) Isotype: IgG Cross-Reactivity: Human Purification: >95%, Protein G purified Target Details  Target: NR1D1 Alternative Name: NR1D1 (NR1D1 Products)	Binding Specificity:	AA 246-558	
Clonality: Polyclonal  Conjugate: This NR1D1 antibody is conjugated to HRP  Application: ELISA  Product Details  Immunogen: Recombinant Human Nuclear receptor subfamily 1 group D member 1 protein (246-558AA)  Isotype: IgG  Cross-Reactivity: Human  Purification: >95%, Protein G purified  Target Details  Target: NR1D1  Alternative Name: NR1D1 (NR1D1 Products)	Reactivity:	Human	
Conjugate: This NR1D1 antibody is conjugated to HRP  Application: ELISA  Product Details  Immunogen: Recombinant Human Nuclear receptor subfamily 1 group D member 1 protein (246-558AA)  Isotype: IgG  Cross-Reactivity: Human  Purification: >95%, Protein G purified  Target Details  Target: NR1D1  Alternative Name: NR1D1 (NR1D1 Products)	Host:	Rabbit	
Application: ELISA  Product Details  Immunogen: Recombinant Human Nuclear receptor subfamily 1 group D member 1 protein (246-558AA)  Isotype: IgG  Cross-Reactivity: Human  Purification: >95%, Protein G purified  Target Details  Target: NR1D1  Alternative Name: NR1D1 (NR1D1 Products)	Clonality:	Polyclonal	
Product Details  Immunogen: Recombinant Human Nuclear receptor subfamily 1 group D member 1 protein (246-558AA)  Isotype: IgG  Cross-Reactivity: Human  Purification: >95%, Protein G purified  Target Details  Target: NR1D1  Alternative Name: NR1D1 (NR1D1 Products)	Conjugate:	This NR1D1 antibody is conjugated to HRP	
Immunogen: Recombinant Human Nuclear receptor subfamily 1 group D member 1 protein (246-558AA)  Isotype: IgG  Cross-Reactivity: Human  Purification: >95%, Protein G purified  Target Details  Target: NR1D1  Alternative Name: NR1D1 (NR1D1 Products)	Application:	ELISA	
Isotype: IgG  Cross-Reactivity: Human  Purification: >95%, Protein G purified  Target Details  Target: NR1D1  Alternative Name: NR1D1 (NR1D1 Products)	Product Details		
Cross-Reactivity: Human  Purification: >95%, Protein G purified  Target Details  Target: NR1D1  Alternative Name: NR1D1 (NR1D1 Products)	Immunogen:	Recombinant Human Nuclear receptor subfamily 1 group D member 1 protein (246-558AA)	
Purification: >95%, Protein G purified  Target Details  Target: NR1D1  Alternative Name: NR1D1 (NR1D1 Products)	Isotype:	IgG	
Target Details  Target: NR1D1  Alternative Name: NR1D1 (NR1D1 Products)	Cross-Reactivity:	Human	
Target: NR1D1  Alternative Name: NR1D1 (NR1D1 Products)	Purification:	>95%, Protein G purified	
Alternative Name: NR1D1 (NR1D1 Products)	Target Details		
·	Target:	NR1D1	
Background: Background: Transcriptional repressor which coordinates circadian rhythm and metabolic	Alternative Name:	NR1D1 (NR1D1 Products)	
	Background:	Background: Transcriptional repressor which coordinates circadian rhythm and metabolic	

pathways in a heme-dependent manner. Integral component of the complex transcription

machinery that governs circadian rhythmicity and forms a critical negative limb of the circadian clock by directly repressing the expression of core clock components ARTNL/BMAL1, CLOCK and CRY1. Also regulates genes involved in metabolic functions, including lipid and bile acid metabolism, adipogenesis, gluconeogenesis and the macrophage 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 nucleotides (RevDR-2). Acts as a potent competitive repressor of ROR alpha (RORA) function and regulates the levels of its ligand heme by repressing the expression of PPARGC1A, a potent inducer of heme synthesis. Regulates lipid metabolism by repressing the expression of APOC3 and by influencing the activity of sterol response element binding proteins (SREBPs), represses INSIG2 which interferes with the proteolytic activation of SREBPs which in turn govern the rhythmic expression of enzymes with key functions in sterol and fatty acid synthesis. Regulates gluconeogenesis via repression of G6PC and PEPCK and adipocyte differentiation via repression of PPARG. Regulates glucagon release in pancreatic alpha-cells via the AMPK-NAMPT-SIRT1 pathway and the proliferation, glucose-induced insulin secretion and expression of key lipogenic genes in pancreatic-beta cells. Positively regulates bile acid synthesis by increasing hepatic expression of CYP7A1 via repression of NR0B2 and NFIL3 which are negative regulators of CYP7A1. Modulates skeletal muscle oxidative capacity by regulating mitochondrial biogenesis and autophagy, controls mitochondrial biogenesis and respiration by interfering with the STK11-PRKAA1/2-SIRT1-PPARGC1A signaling pathway. Represses the expression of SERPINE1/PAI1, an important modulator of cardiovascular disease and the expression of inflammatory cytokines and chemokines in macrophages. Represses gene expression at a distance in macrophages by inhibiting the transcription of enhancer-derived RNAs (eRNAs). Plays a role in the circadian regulation of body temperature and negatively regulates thermogenic transcriptional programs in brown adipose tissue (BAT), imposes a circadian oscillation in BAT activity, increasing body temperature when awake and depressing thermogenesis during sleep. In concert with NR2E3, regulates transcriptional networks critical for photoreceptor development and function. In addition to its activity as a repressor, can also act as a transcriptional activator. In the ovarian granulosa cells acts as a transcriptional activator of STAR which plays a role in steroid biosynthesis. In collaboration with SP1, activates GJA1 transcription in a heme-independent manner.

Aliases: EAR-1 antibody, EAR1 antibody, ERBA-related 1 antibody, hRev antibody, Nr1d1

## **Target Details**

an	tibody, NR1D1_HUMAN antibody, Nuclear receptor Rev ErbA alpha antibody, Nuclear receptor
su	bfamily 1 group D member 1 antibody, Rev erbAalpha antibody, Rev erbalpha antibody, Rev-
erl	pA-alpha antibody, Rev-ErbAalpha antibody, Reverba antibody, THRA1 antibody, THRAL
an	tibody, Thyroid hormone receptor, alpha like antibody, Thyroid hormone receptor, alpha-1-
like	e antibody, V-erbA-related protein 1 antibody

UniProt:

P20393

Pathways:

Nuclear Receptor Transcription Pathway, Steroid Hormone Mediated Signaling Pathway,

Cellular Response to Molecule of Bacterial Origin, Regulation of Lipid Metabolism by PPARalpha

## **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	
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.	