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# Product datasheet for TA392606

## **NR1D1 Rabbit Polyclonal Antibody**

### **Product data:**

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	WB: 1:5000~1:10000
Reactivity:	Human, Pig
Host:	Rabbit
lsotype:	lgG
Clonality:	Polyclonal
Immunogen:	Synthetic peptide, corresponding to Human Rev-Erbα.
Specificity:	Rev-Erba polyclonal antibody detects endogenous levels of Rev-Erba protein.
Formulation:	Rabbit IgG, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2
Concentration:	1mg/ml
Conjugation:	Unconjugated
Storage:	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze-thaw cycles.
Stability:	1 year
Predicted Protein Size:	~ 78 kDa
Gene Name:	nuclear receptor subfamily 1 group D member 1
Database Link:	<u>Entrez Gene 9572 Human</u> <u>P20393</u>



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#### **CRIGENE** NR1D1 Rabbit Polyclonal Antibody – TA392606

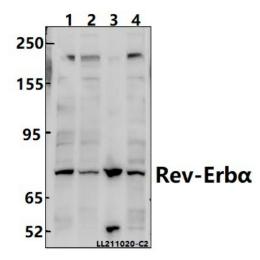
Background:Reverse orientation c-erbA gene α (Rev-erbα, EAR-1, or NR1D1) is a widely expressed member<br/>of the orphan nuclear receptor family of proteins. Rev-erbα is highly expressed in adipose<br/>tissue, skeletal muscle, brain and liver, and regulates cellular proliferation and differentiation.<br/>Expression increases during differentiation in adipocytes and ectopic expression of Rev-erba<br/>potentiates the adipocyte differentiation of 3T3-L1 cells. In addition, expression oscillates with<br/>circadian rhythm in liver cells and Rev-erbα regulates expression of BMAL1, ApoA-I and ApoC-<br/>III, all key regulators of circadian rhythm. Phosphorylation of Rev-erbα Ser55 and Ser59 by<br/>GSK-3β appears to stabilize Rev-erbα protein levels and is important for synchronizing and<br/>maintaining the circadian clock. Rev-erbα also regulates inflammation by targeting the NF-κB<br/>responsive genes IL-6 and COX-2. Rev-erbα lacks the activation function 2 domain required<br/>for ligand-dependent activation of transcription by other members of the nuclear receptor<br/>family; thus it behaves as a constitutive repressor protein, recruiting the nuclear receptor co-<br/>repressor (N-CoR)/HDAC3 complex to target genes to repress transcription.

Synonyms:EAR-1; Nuclear receptor subfamily 1 group D member 1; Rev-erbA-alpha; V-erbA-related<br/>protein 1

Note:

For research use only, not for use in diagnostic procedure.

#### **Product images:**



Western blot (WB) analysis of Rev-Erbα polyclonal antibody at 1:10000 dilution Lane1:U-87MG whole cell lysate(40ug) Lane2:A549 whole cell lysate(40ug) Lane3:The Lung tissue lysate of Pig(40ug) Lane4:HepG2 whole cell lysate(40ug)

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