

# **Product datasheet for TA392606S**

### **NR1D1 Rabbit Polyclonal Antibody**

### **Product data:**

**Product Type:** Primary Antibodies

Applications: WE

Recommended Dilution: WB: 1:5000~1:10000

Reactivity: Human, Pig

Host: Rabbit

**Isotype:** IgG

**Clonality:** Polyclonal

**Immunogen:** Synthetic peptide, corresponding to Human Rev-Erbα.

**Specificity:** Rev-Erbα polyclonal antibody detects endogenous levels of Rev-Erbα 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:** Entrez Gene 9572 Human

P20393



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#### Background:

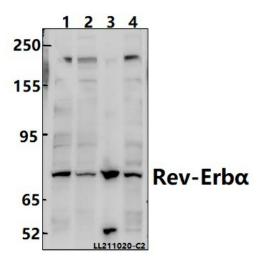
Reverse orientation c-erbA gene  $\alpha$  (Rev-erb $\alpha$ , EAR-1, or NR1D1) is a widely expressed member of the orphan nuclear receptor family of proteins. Rev-erb $\alpha$  is highly expressed in adipose tissue, skeletal muscle, brain and liver, and regulates cellular proliferation and differentiation.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

protein 1

**Note:** For research use only, not for use in diagnostic procedure.

## **Product images:**



Western blot (WB) analysis of Rev-Erba 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)