

# NR1D2 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a full length recombinant NR1D2. Catalog # AT3095a

#### Specification

# NR1D2 Antibody (monoclonal) (M01) - Product Information

Application Primary Accession Other Accession Reactivity Host Clonality Isotype Calculated MW WB, IF <u>Q14995</u> <u>BC045613</u> Human mouse Monoclonal IgG1 kappa 64643

# NR1D2 Antibody (monoclonal) (M01) - Additional Information

Gene ID 9975

**Other Names** 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

**Target/Specificity** NR1D2 (AAH45613, 1 a.a. ~ 579 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

**Dilution** WB~~1:500~1000 IF~~1:50~200

Format Clear, colorless solution in phosphate buffered saline, pH 7.2 .

Storage Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

**Precautions** NR1D2 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

### NR1D2 Antibody (monoclonal) (M01) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- <u>Western Blot</u>
- Blocking Peptides



- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- <u>Cell Culture</u>

NR1D2 Antibody (monoclonal) (M01) - Images



Immunofluorescence of monoclonal antibody to NR1D2 on HeLa cell. [antibody concentration 10 ug/ml]



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (89.21 KDa).





NR1D2 monoclonal antibody (M01), clone 1G2 Western Blot analysis of NR1D2 expression in Hela ( (Cat # AT3095a )



Western Blot analysis of NR1D2 expression in transfected 293T cell line by NR1D2 monoclonal antibody (M01), clone 1G2.

Lane 1: NR1D2 transfected lysate(64.7 KDa). Lane 2: Non-transfected lysate.



Detection limit for recombinant GST tagged NR1D2 is approximately 0.03ng/ml as a capture antibody.

### NR1D2 Antibody (monoclonal) (M01) - Background

This gene encodes a member of the nuclear hormone receptor family, specifically the NR1 subfamily of receptors. The encoded protein functions as a transcriptional repressor and may play a role in circadian rhythms and carbohydrate and lipid metabolism. Alternatively spliced transcript variants have been described.

### NR1D2 Antibody (monoclonal) (M01) - References

Nuclear receptor rev-erb-{alpha} circadian gene variants and lithium carbonate prophylaxis in bipolar affective disorder. Campos-de-Sousa S, et al. J Biol Rhythms, 2010 Apr. PMID 20348464.Redundant function of REV-ERBalpha and beta and non-essential role for Bmal1 cycling



in transcriptional regulation of intracellular circadian rhythms. Liu AC, et al. PLoS Genet, 2008 Feb 29. PMID 18454201.Nuclear hormone receptors for heme: REV-ERBalpha and REV-ERBbeta are ligand-regulated components of the mammalian clock. Burris TP. Mol Endocrinol, 2008 Jul. PMID 18218725.Identification of heme as the ligand for the orphan nuclear receptors REV-ERBalpha and REV-ERBbeta. Raghuram S, et al. Nat Struct Mol Biol, 2007 Dec. PMID 18037887.The orphan nuclear receptor Rev-erbbeta recruits Tip60 and HDAC1 to regulate apolipoprotein CIII promoter. Wang J, et al. Biochim Biophys Acta, 2008 Feb. PMID 17996965.