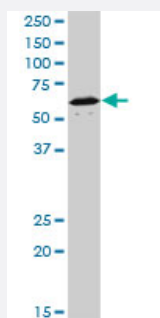


NR1D1 monoclonal antibody (M02), clone 4F6

Catalog # H00009572-M02

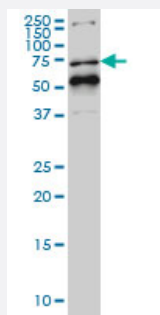
Size 100 ug

Applications



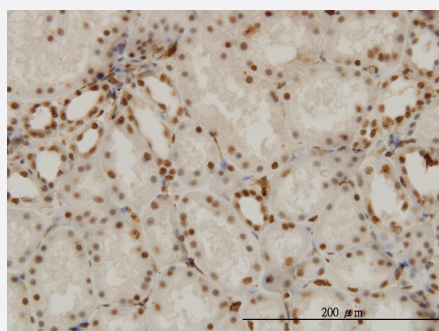
Western Blot (Cell lysate)

NR1D1 monoclonal antibody (M02), clone 4F6. Western Blot analysis of NR1D1 expression in NIH/3T3 (Cat # L018V1).



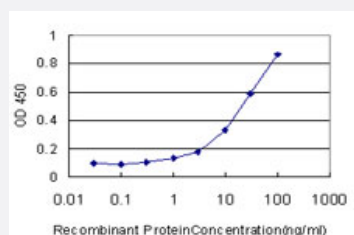
Western Blot (Cell lysate)

NR1D1 monoclonal antibody (M02), clone 4F6 Western Blot analysis of NR1D1 expression in Hela S3 NE (Cat # L013V3).



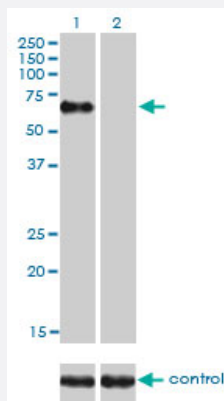
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunoperoxidase of monoclonal antibody to NR1D1 on formalin-fixed paraffin-embedded human kidney. [antibody concentration 3 ug/ml]



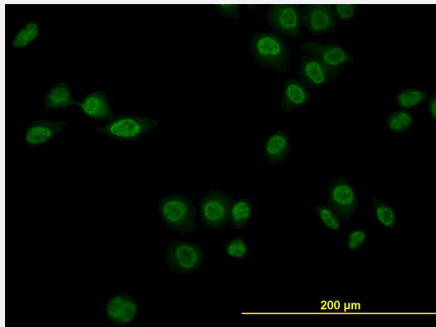
Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged NR1D1 is approximately 1ng/ml as a capture antibody.



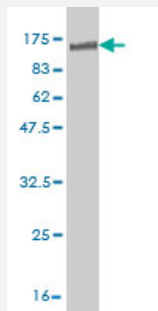
RNAi Knockdown (Antibody validated)

Western blot analysis of NR1D1 over-expressed 293 cell line, cotransfected with NR1D1 Validated Chimera RNAi (Cat # H00009572-R01V) (Lane 2) or non-transfected control (Lane 1). Blot probed with NR1D1 monoclonal antibody (M02), clone 4F6 (Cat # H00009572-M02). GAPDH (36.1 kDa) used as specificity and loading control.



Immunofluorescence

Immunofluorescence of monoclonal antibody to NR1D1 on HeLa cell. [antibody concentration 10 ug/ml]



Western Blot detection against Immunogen (93.28 KDa) .

Specification

Product Description

Mouse monoclonal antibody raised against a full length recombinant NR1D1.

Immunogen

NR1D1 (AAH56148, 1 a.a. ~ 614 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

Sequence	MTTLDSSNNNTGGVITYIGSSGSSPSRTSPESLYSDNSNGSFQSLTQGCPTYFPPSPTGSLTQDPAR SFGSIPPSLSDDGSPSSSSSSSSSSSSSFYNGSPPGSLQVAMEDSSRVSPSKSTSNITKLNGMVL LCKVCGDVASGFHYGVHACEGCKGFFRRSIQQNIQYKRLKNENCSIVRINRNRCCQCRFKKCLS VGMSRDAVRFRGRIPKREKQRMLAEMQSAMNLANNQLSSQCPLETSPTQHPTPGPMGPSPPPAP VPSPLVGFSQFPQQLTPRSPSPEPTVEDVISQVARAHREIFTYAHDKLGSSPGNFNANHASGSP PATTPHRWENQGCPPAPNDNNTLAAQRHNEALNGLRQAPSSYPPTWPPGPAHHSCHQSNNSNG HRLCPTHVYAAPEGKAPANSRQGNNSKNVLLACPMNMYPHGRSGRTVQEIWEDFSMSFTP AVR EVVEFAKHIPGFRDLSQHDQVTLLKAGTFEVL MVRFASLFNVKDQTMFLSRTTYSLQELGAMGM GDLLSAMFDFSEKLNLSALTEEELGLFTAVVLVSADRSGMENSASVEQLQETLLRALRALVLKNR PLETSRFTKLLKLPLDLRTLNNMHSEKLLSFRVDAQ
Host	Mouse
Reactivity	Human, Mouse
Interspecies Antigen Sequence	Mouse (95); Rat (94)
Isotype	IgG1 Kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (93.28 KDa) .
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Cell lysate)

NR1D1 monoclonal antibody (M02), clone 4F6. Western Blot analysis of NR1D1 expression in NIH/3T3 (Cat # L018V1).

[Protocol Download](#)

- Western Blot (Cell lysate)

NR1D1 monoclonal antibody (M02), clone 4F6 Western Blot analysis of NR1D1 expression in Hela S3 NE (Cat # L013V3).

[Protocol Download](#)

- Western Blot (Recombinant protein)

[Protocol Download](#)

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunoperoxidase of monoclonal antibody to NR1D1 on formalin-fixed paraffin-embedded human kidney. [antibody concentration 3 ug/ml]

[Protocol Download](#)

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[Protocol Download](#)

- ELISA

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[Protocol Download](#)

- Immunofluorescence

Immunofluorescence of monoclonal antibody to NR1D1 on HeLa cell. [antibody concentration 10 ug/ml]

Gene Info — NR1D1

Entrez GeneID [9572](#)

GeneBank Accession# [BC056148](#)

Protein Accession# [AAH56148](#)

Gene Name NR1D1

Gene Alias EAR1, THRA1, THRAL, ear-1, hRev

Gene Description nuclear receptor subfamily 1, group D, member 1

Omim ID [602408](#)

Gene Ontology [Hyperlink](#)

Gene Summary group D

Other Designations Rev-ErbAalpha|thyroid hormone receptor, alpha-like

Publication Reference

- [NR1D1 downregulation in astrocytes induces a phenotype that is detrimental to cocultured motor neurons.](#)

Kelby M Killoy, Benjamin A Harlan, Mariana Pehar, Marcelo R Vargas.

FASEB Journal 2022 Apr; 36(4):e22262.

Application: IF, Mouse, Lumbar spinal cord sections

- [Comparative cell cycle transcriptomics reveals synchronization of developmental transcription factor networks in cancer cells.](#)

Boström J, Sramkova Z, Salašová A, Johard H, Mahdessian D, Fedr R, Marks C, Medalová J, Souček K, Lundberg E, Linnarsson S, Bryja V, Sekyrova P, Altun M, Andäng M.

PLoS One 2017 Dec; 12(12):e0188772.

Application: IF, Human, HeLa cells

- [Ubiquitin ligase Siah2 regulates RevErb \$\alpha\$ degradation and the mammalian circadian clock.](#)

DeBruyne JP, Baggs JE, Sato TK, Hogenesch JB.

Proceedings of the National Academy of Sciences of the United States of America 2015 Oct; 112(40):12420.

Application: WB, Human, U2OS cells

- [Clock-controlled output gene Dbp is a regulator of Arnt/Hif-1 \$\beta\$ gene expression in pancreatic islet \$\beta\$ -cells.](#)

Nakabayashi H, Ohta Y, Yamamoto M, Susuki Y, Taguchi A, Tanabe K, Kondo M, Hatanaka M, Nagao Y, Tanizawa Y.

Biochemical and Biophysical Research Communications 2013 May; 434(2):370.

Application: WB-Tr, ChIP, Human, Mouse, HEK 293 cells, MIN6 cells

Pathway

- [Circadian rhythm - mammal](#)

Disease

- [Bipolar Disorder](#)
- [Cardiovascular Diseases](#)
- [Chronobiology Disorders](#)
- [Depressive Disorder](#)
- [Diabetes Mellitus](#)

- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Mood Disorders](#)
- [Psychiatric Status Rating Scales](#)
- [Psychotic Disorders](#)
- [Schizophrenia](#)
- [Sleep Disorders](#)