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Mouse Monoclonal Antibody to NR1I2

Purified Mouse Monoclonal Antibody
Catalog # AO2445a

Product Information

Application	WB, FC, ICC, E
Primary Accession	O75469
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Clone Names	1D12G1
Isotype	Mouse IgG2b
Calculated MW	49762
Description	This gene product belongs to the nuclear receptor superfamily, members of which are transcription factors characterized by a ligand-binding domain and a DNA-binding domain. The encoded protein is a transcriptional regulator of the cytochrome P450 gene CYP3A4, binding to the response element of the CYP3A4 promoter as a heterodimer with the 9-cis retinoic acid receptor RXR. It is activated by a range of compounds that induce CYP3A4, including dexamethasone and rifampicin. Several alternatively spliced transcripts encoding different isoforms, some of which use non-AUG (CUG) translation initiation codon, have been described for this gene. Additional transcript variants exist, however, they have not been fully characterized.;
Immunogen	Purified recombinant fragment of human NR1I2 (AA: 1-142) expressed in E. Coli.
Formulation	Purified antibody in PBS with 0.05% sodium azide
Application Note	ELISA: 1/10000; WB: 1/500 - 1/2000; ICC: 1/200 - 1/1000; FCM: 1/200 - 1/400

Additional Information

Gene ID	8856
Other Names	BXR; PAR; PRR; PXR; SAR; SXR; ONR1; PAR1; PAR2; PARq
Dilution	WB~~1:1000 FC~~1:10~50 ICC~~N/A E~~N/A
Storage	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	Mouse Monoclonal Antibody to NR1I2 is for research use only and not for use in diagnostic or therapeutic procedures.

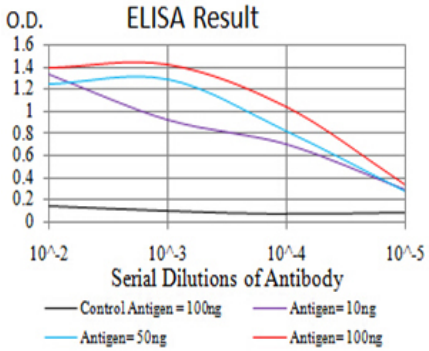
Protein Information

Name	NR1I2
Synonyms	PXR
Function	Nuclear receptor that binds and is activated by variety of endogenous and xenobiotic compounds. Transcription factor that activates the transcription of multiple genes involved in the metabolism and secretion of potentially harmful xenobiotics, drugs and endogenous compounds. Activated by the antibiotic rifampicin and various plant metabolites, such as hyperforin, guggulipid, colupulone, and isoflavones. Response to specific ligands is species-specific. Activated by naturally occurring steroids, such as pregnenolone and progesterone. Binds to a response element in the promoters of the CYP3A4 and ABCB1/MDR1 genes.
Cellular Location	Nucleus {ECO:0000255|PROSITE-ProRule:PRU00407, ECO:0000269|PubMed:12606758}
Tissue Location	Expressed in liver, colon and small intestine.

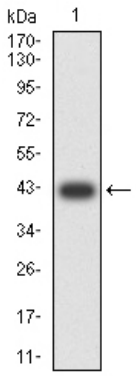
References

1.Int J Mol Sci. 2014 Sep 29;15(10):17457-68. ; 2.J Periodontal Res. 2012 Apr;47(2):174-9. ;

Images

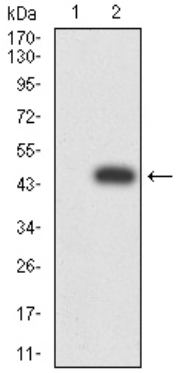


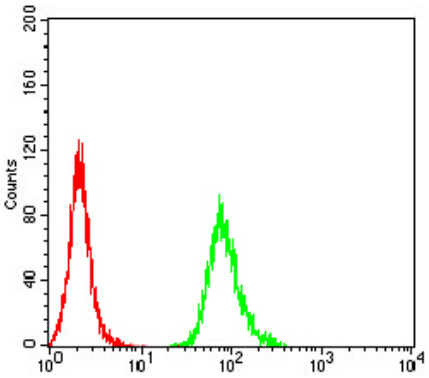
Black line: Control Antigen (100 ng);Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line:Antigen (100 ng)



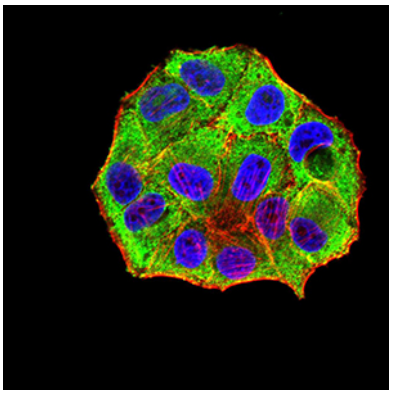
Western blot analysis using NR1I2 mAb against human NR1I2 (AA: 1-142) recombinant protein. (Expected MW is 42.2 kDa)

Western blot analysis using NR1I2 mAb against HEK293 (1) and NR1I2 (AA: 1-142)-hIgGFc transfected HEK293 (2) cell lysate.





Flow cytometric analysis of HepG2 cells using NR1I2 mouse mAb (green) and negative control (red).



Immunofluorescence analysis of Hela cells using NR1I2 mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin. Secondary antibody from Fisher