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Mouse Monoclonal Antibody to NR1I2

Purified Mouse Monoclonal Antibody
Catalog # AO2446a

Product Information

Application	WB, FC, E
Primary Accession	O75469
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Clone Names	6H11D8
Isotype	Mouse IgG1
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; 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 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.

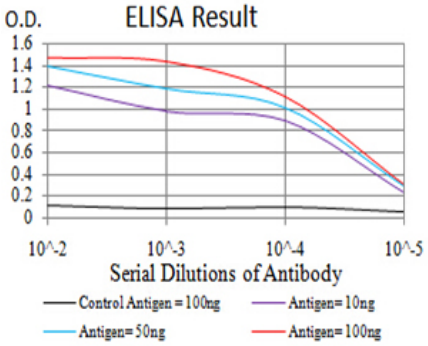
Protein Information

Name	NR1I2
Synonyms	PXR
Function	Nuclear receptor that acts as a transcription factor regulating genes involved in the metabolism and excretion of xenobiotics, drugs, and endogenous compounds. Activated by a broad range of endogenous steroids (e.g. pregnenolone, progesterone) and xenobiotics, including the antibiotic rifampicin and certain plant- derived metabolites. Upon ligand binding, translocates to the nucleus, forms a heterodimer with the retinoid X receptor/RXR, and binds to response elements in target promoters, leading to transcriptional activation. Target genes include cytochrome P450 enzymes such as CYP3A4 and ATP-binding cassette transporters including ABCB1/MDR1.
Cellular Location	Nucleus {ECO:0000255|PROSITE-ProRule:PRU00407, ECO:0000269|PubMed:12606758, ECO:0000269|PubMed:26534988}. Cytoplasm
Tissue Location	Expressed in liver, colon and small intestine.

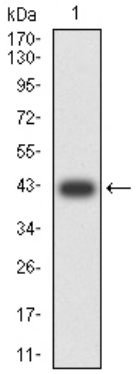
References

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

Images

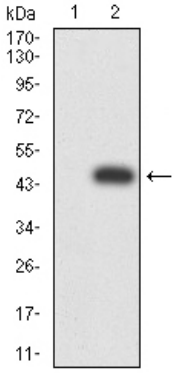


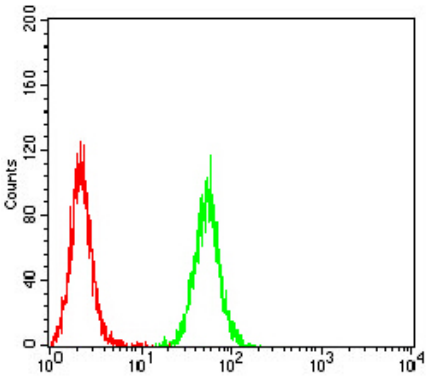
Black line: Control Antigen (100 ng);Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line:Antigen (100 ng)



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).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.