10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Mouse Monoclonal Antibody to NR1I2
Purified Mouse Monoclonal Antibody
Catalog # AO2445a

Specification

Mouse Monoclonal Antibody to NR1I2 - Product Information

Application	**WB, FC, ICC, E**
Primary Accession	O75469
Reactivity	**Human**
Host	**Mouse**
Clonality	**Monoclonal**
Isotype	**Mouse IgG2b**
Calculated MW	**49.8kDa KDa**

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

Mouse Monoclonal Antibody to NR1I2 - 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.

Mouse Monoclonal Antibody to NR1I2 - 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.

Mouse Monoclonal Antibody to NR1I2 - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Mouse Monoclonal Antibody to NR1I2 - Images

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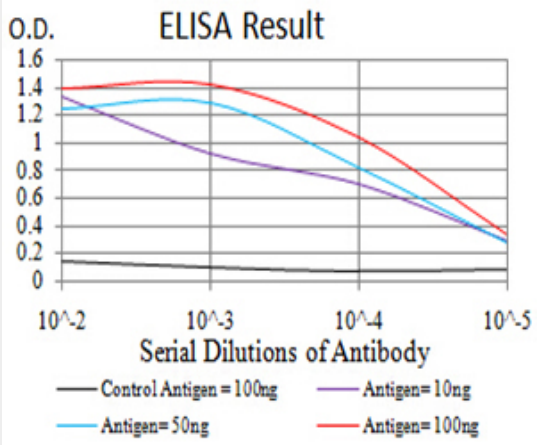
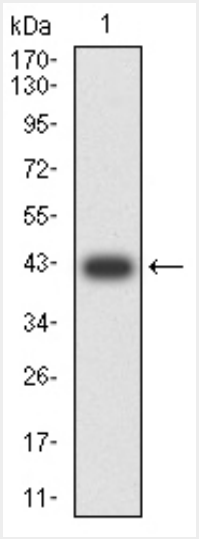
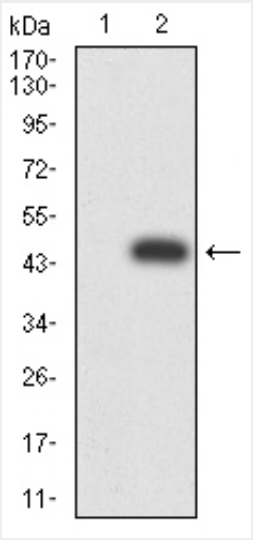


Black line: Control Antigen (100 ng);Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line:Antigen (100 ng)



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.

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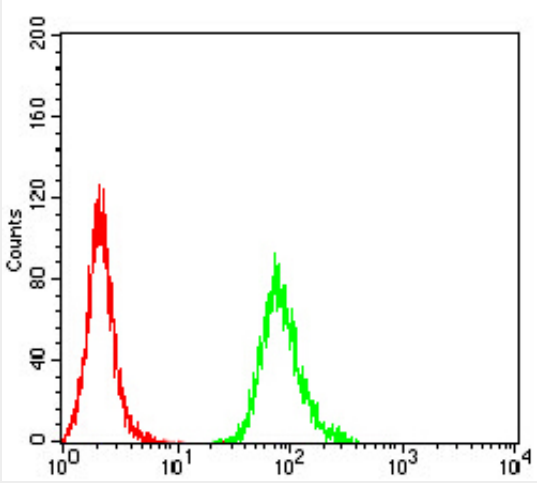
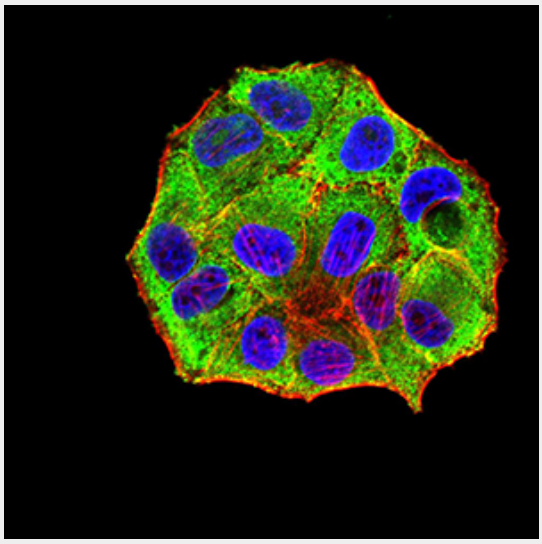


Flow cytometric analysis of HepG2 cells using NR1I2 mouse mAb (green) and negative control (red).



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

Mouse Monoclonal Antibody to NR1I2 - References

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