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NR1I2 Antibody (Center) Blocking Peptide

Synthetic peptide
Catalog # BP8674c

Specification

NR1I2 Antibody (Center) Blocking Peptide - Product Information

Primary Accession O75469

NR1I2 Antibody (Center) Blocking Peptide - Additional Information

Gene ID 8856

Other Names
Nuclear receptor subfamily 1 group I member 2, Orphan nuclear receptor PAR1, Orphan nuclear receptor PXR, Pregnane X receptor, Steroid and xenobiotic receptor, SXR, NR1I2, PXR

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP8674c was selected from the Center region of human NR1I2. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

NR1I2 Antibody (Center) Blocking Peptide - 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.

NR1I2 Antibody (Center) Blocking Peptide - Protocols

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

- Blocking Peptides

NR1I2 Antibody (Center) Blocking Peptide - Images

NR1I2 Antibody (Center) Blocking Peptide - Background

NR1I2 belongs to the nuclear receptor superfamily, members of which are transcription factors characterized by a ligand-binding domain and a DNA-binding domain. This 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.

NR1I2 Antibody (Center) Blocking Peptide - References

Lehmann,J.M., et.al., J. Clin. Invest. 102 (5), 1016-1023 (1998)