

## Recombinant Human NR1I2

**Cat. No.** NR1I2-31269TH    **Lot. No.** (See product label)

### SPECIFICATION

|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>    | Recombinant full length human PXR expressed in baculovirus system; amino acids 1-434, 50kDa.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Species</b>             | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>ProteinLength</b>       | 1-434 a.a.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Description</b>         | <p>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.</p> |
| <b>Tissue specificity</b>  | Expressed in liver, colon and small intestine.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Biological activity</b> | 1 unit equals 1 nanogram of purified protein.NR1I2-31269TH binds to DNA as a heterodimer with RXR alpha; 1000U (1ug) required.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Form</b>                | Liquid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Purity</b>              | Immunogen affinity purified                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

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|------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| <b>Storage buffer</b>        | Preservative: None<br>Constituents: 20% Glycerol, 20mM Tris Cl, 100mM Potassium chloride, 1mM DTT, 0.2mM EDTA, pH 8.0 |
| <b>Storage</b>               | Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.                             |
| <b>Sequence Similarities</b> | Belongs to the nuclear hormone receptor family. NR1 subfamily. Contains 1 nuclear receptor DNA-binding domain.        |
| <b>Full Length</b>           | Full L.                                                                                                               |

## GENE INFORMATION

|                            |                                                                                                                                   |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>           | NR1I2 nuclear receptor subfamily 1, group I, member 2 [ Homo sapiens ]                                                            |
| <b>Official Symbol</b>     | NR1I2                                                                                                                             |
| <b>Synonyms</b>            | NR1I2; nuclear receptor subfamily 1, group I, member 2; nuclear receptor subfamily 1 group I member 2; BXR; ONR1; PAR2; PXR; SXR; |
| <b>Gene ID</b>             | 8856                                                                                                                              |
| <b>mRNA Refseq</b>         | NM_003889                                                                                                                         |
| <b>Protein Refseq</b>      | NP_003880                                                                                                                         |
| <b>MIM</b>                 | 603065                                                                                                                            |
| <b>Uniprot ID</b>          | O75469                                                                                                                            |
| <b>Chromosome Location</b> | 3q12-q13.3                                                                                                                        |

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|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Pathway</b>  | Gene Expression, organism-specific biosystem; Generic Transcription Pathway, organism-specific biosystem; Nuclear Receptor transcription pathway, organism-specific biosystem; Nuclear Receptors, organism-specific biosystem; Nuclear receptors in lipid metabolism and toxicity, organism-specific biosystem; |
| <b>Function</b> | drug binding; ligand-dependent nuclear receptor activity; metal ion binding; protein binding; receptor activity;                                                                                                                                                                                                |

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