

For Research Use Only

# PXR Monoclonal antibody

Catalog Number: 67912-1-Ig **10 Publications**



## Basic Information

|  |  |  |
|--|--|--|
| <b>Catalog Number:</b><br>67912-1-Ig       | <b>GenBank Accession Number:</b><br>BC017304                         | <b>Purification Method:</b><br>Protein A purification                |
| <b>Size:</b><br>1000 µg/ml                 | <b>GeneID (NCBI):</b><br>8856  | <b>CloneNo.:</b><br>1G3A7  |
| <b>Source:</b><br>Mouse                    | <b>UNIPROT ID:</b><br>O75469   | <b>Recommended Dilutions:</b><br>WB 1:5000-1:50000<br>IHC 1:50-1:500 |
| <b>Isotype:</b><br>IgG1                    | <b>Full Name:</b><br>nuclear receptor subfamily 1, group I, member 2 |  |
| <b>Immunogen Catalog Number:</b><br>AG7991 | <b>Calculated MW:</b><br>50 kDa                                      |  |
|  | <b>Observed MW:</b><br>50 kDa  |  |

## Applications

|   |   |
|---|---|
| <b>Tested Applications:</b><br>WB, IHC, FC (Intra), ELISA | <b>Positive Controls:</b><br>WB : rat liver tissue, COLO 320 cells, MCF-7 cells, mouse liver tissue<br>IHC : mouse kidney tissue, |
| <b>Cited Applications:</b><br>WB, IF, IP, ChIP            |   |
| <b>Species Specificity:</b><br>human, mouse, rat          |   |
| <b>Cited Species:</b><br>human, mouse, rat                |   |

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

## Background Information

Pregnane X receptor (PXR; NR1I2), a member of the nuclear receptor superfamily, plays a key role in the induction of genes involved in drug transport and metabolism. It modulates drug transport and metabolism through the regulation of target genes responsible for the transport and conversion of chemicals into metabolites that are more easily eliminated from the body [PMID: 22609277]. It is also emerging as an endobiotic receptor that regulates the inflammatory response. In addition, PXR acts as a transcription factor that activates the transcription of multiple genes involved in the metabolism and secretion of potentially harmful xenobiotics, drugs and endogenous compounds [PMID: 19297428].

## Notable Publications

| Author         | Pubmed ID | Journal         | Application |
|----------------|-----------|-----------------|-------------|
| Xin Shen       | 34351342  | Food Funct      | WB          |
| Lingming Zhang | 35417848  | Phytomedicine   | WB,IF,IP    |
| Yue Feng       | 38654691  | Adv Sci (Weinh) | WB,IF,ChIP  |

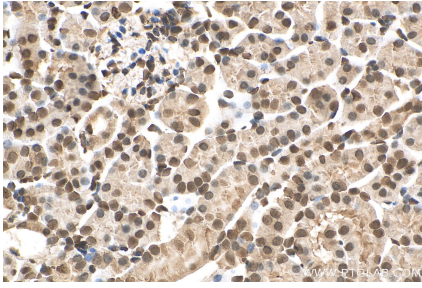
## Storage

**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

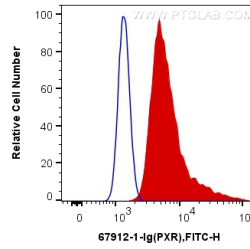
For technical support and original validation data for this product please contact:  
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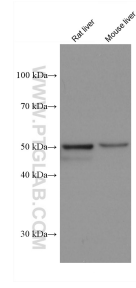
## Selected Validation Data



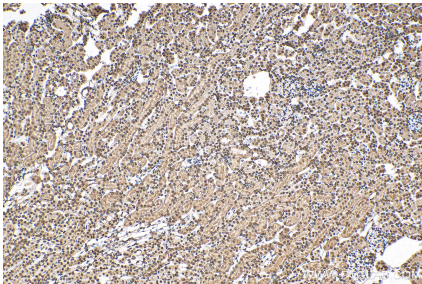
Immunohistochemical analysis of paraffin-embedded mouse kidney tissue slide using 67912-1-Ig (PXR antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



$1 \times 10^6$  MCF-7 cells were intracellularly stained with 0.2  $\mu$ g Anti-Human PXR (67912-1-Ig, Clone:1G3A7) and CoraLite@488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) at dilution 1:1000 (red), or 0.2  $\mu$ g Control Antibody. Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).



Various lysates were subjected to SDS PAGE followed by western blot with 67912-1-Ig (PXR antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse kidney tissue slide using 67912-1-Ig (PXR antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).