

PXR Monoclonal antibody

Catalog Number: 67912-1-Ig **13 Publications**

Basic Information

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

Applications

Tested Applications: WB, IHC, FC (Intra), ELISA	Positive Controls:
Cited Applications: WB, IF, IP, ColP, ChIP	WB : rat liver tissue, COLO 320 cells, MCF-7 cells, mouse liver tissue
Species Specificity: human, mouse, rat	IHC : mouse kidney tissue,
Cited Species: 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].

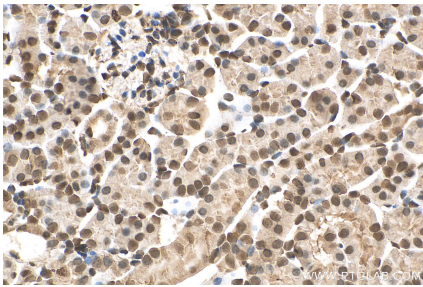
Notable Publications

Author	Pubmed ID	Journal	Application
Xin Shen	34351342	Food Funct	WB
Lingming Zhang	35417848	Phytomedicine	WB, IF, IP
Jian Zhao	39631715	J Ethnopharmacol	WB, IF

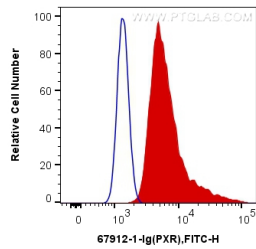
Storage

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

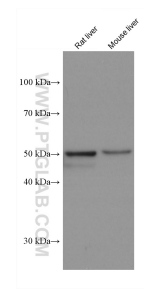
Selected Validation Data



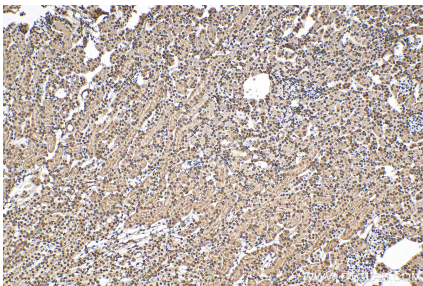
Immunohistochemical analysis of paraffin-embedded mouse kidney tissue slide using 67912-1-Ig (PXR antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



1X10⁶ MCF-7 cells were intracellularly stained with 0.2 ug Anti-Human PXR (67912-1-Ig, Clone:1G3A7) and CoraLite®488-Conjugated Goat Anti-Mouse IgG(H+L) at dilution 1:1000 (red), or 0.2 ug 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).