

Anti human PXR common mouse monoclonal antibody

PXR: Pregnane X receptor, SXR

Code No	PP-H4417-00
Clone No.	H4417
Lot.	A-1
Concentration	1 mg/mL
Volume	100 uL
Ig Class	G2a

Description Pregnane-activated receptor (PXR,SXR, PAR, PAR1, PAR2, NR1I2) is a member of nuclear receptor subfamily , which each orthologues historically given different names as pregnane-activated receptor in mice and steroid- and xenobiotic-sensing nuclear receptor in human, PXR binds to rifampicin (an antibiotics) is the most efficient activator in human. Various studies revealed PXR regulates CYP3A gene expression as well as other xenobiotic metabolisms, such as oxidation, conjugation and transport. Many chemicals are known to bind for PXR as activators, eg. the HIV protease inhibitor ritonavir, the anticancer drug paclitaxel, the endocrine disruptor bisphenol A. Expression of PXR founds in the liver, small intestine and colon in the human, rabbit and mouse where CYP3A genes are expressed or induced.

Nomenclature NR1I 2

Genbank AF084645

Origin Produced in BALB/c mouse ascites after inoculation with hybridoma of mouse myeloma cells (NS-1) and spleen cells derived from a BALB/c mouse immunized with Baculovirus-expressed recombinant human PXR-1(1-40 aa) .

Specificity This antibody specifically recognizes human PXR-1 and PXR-2. Not yet tested in other species.

Purification Ammonium sulfate fractionation

Formulation Physiological saline with 0.1% NaN₃ as a preservative.

Application / Recommended Concentration

In order to obtain the best results, optimal working dilutions should be determined by each individual user.

Western Blot 1ug/mL

Non reducing Western Blot 3ug/mL

ELISA 2ug/mL (A450=1.0)

Immunoprecipitation Decide by use

Supershift Assay Not yet tested

Chromatin immunoprecipitation Not yet tested

Immunohistochemistry Not yet tested

Storage Store at 2 - 8 °C up to one month. For long-term storage, the solution may be frozen in working aliquots. Repeated freezing and thawing is not recommended. Storage in a frost-free freezer is not recommended.

Reference

Notes Sodium azide may react with lead and copper plumbing to form explosive metal azides. Flush with large amounts of water during disposal.

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