

## Anti human FXR mouse monoclonal antibody

FXR: Farnesoid X Receptor

**Code No** PP-A9033A-00

**Clone No.** A9033A

**Lot.** A-2

**Concentration** 1 mg/mL

**Volume** 100 uL

**Ig Class** G2a

**Description** Farnesoid X-activated receptor (FXR, HRR-1, BAR, RIP14; NR1H4) is a member of orphan nuclear receptor. FXR is expressed in liver, intestinal villi, renal tubes and adrenal cortex. FXR is a global regulator of bile acid metabolism. Two genes, cholesterol 7 $\alpha$ -hydroxylase (CYP7A1) and IBABP (ileal bile acid binding protein), which are implicated in bile acid biosynthesis and recycling, respectively, are target genes of FXR. FXR was shown to be transcriptionally activated by farnesol metabolites such as farnesol itself, juvenile hormone III. FXR binds to DNA only as a heterodimer with RXR.

**Nomenclature** NR1H4

**Genbank** U68233

**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 FXR (2-126 aa) .

**Specificity** This antibody specifically recognizes human FXR and cross reacts with mouse and rat FXR.

**Purification** Ammonium sulfate fractionation

**Formulation** Physiological saline with 0.1% NaN<sub>3</sub> 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** 1 ug/mL

**Non reducing Western Blot** Not yet tested

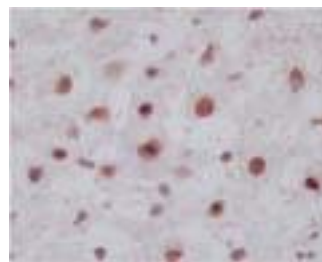
**ELISA** 0.2 ug/mL

**Immunoprecipitation** Decide by use

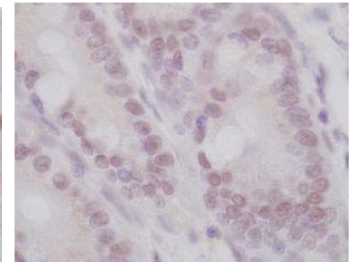
**Supershift Assay** Not yet tested

**Chromatin immunoprecipitation** Not yet tested

**Immunohistochemistry** 20-40 ug/mL



Rat Liver  
Hepatocyte  
frozen section



Rat Small intestine  
Epithelial cell  
paraffin section

**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** Suh JM, *et al.* Mol Endocrinol. 2006; 20(12): 3412-20  
Qin J, *et al.* Dev Dyn. 2007; 236(3): 810-20  
Higashiyama H, *et al.* Acta Histochem. 2008; 110(1): 86-93  
Gineste R, *et al.* Mol Endocrinol. 2008; 22(11): 2433-47

**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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