Catalog Number	Product Name	Quantity	Clonality, clone (isotype)	Reactive species	Applications	Reg. Status
417200	Mouse anti-human FXR	100 µg	mAb clone A9033A (Ms IgG2a)	Hu, Ms, Rt	WB ,E, IP, IHC	RUO

Mouse Anti-Human Farnesoid X Receptor

Description

Farnesoid X activated receptor (FXR, HRR-1, BAR, RIP14, NR1H4) is a member of the orphan nuclear receptor family. 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-α-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 falnesol 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

Concentration is 1 mg/mL in physiological saline with 0.1% sodium azide as a preservative.

Application	Recommended Concentration*
Western Blot	1 µg/mL
Non reducing Western Blot	Not yet tested
ELISA	0.2 µg/mL
Immunoprecipitation	Determine by use
Chromatin Immunoprecipitation	Not yet tested
Electrophoretic Mobility Shift Assay	Not yet tested
Immunohistochemistry	20-40 µg/mL

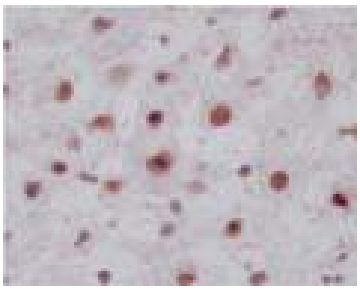
*In order to obtain the best results, optimal working dilutions should be determined by each individual user.

Storage

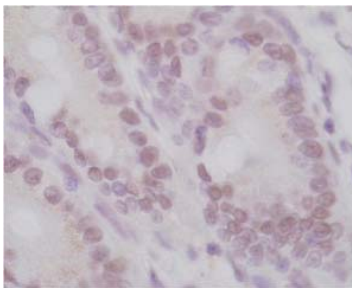
Store at 2 - 8ºC up to one month. For long-term storage, the solution may be frozen at –20ºC in working aliquots. Repeated freezing and thawing is not recommended. Storage in a frost-free freezer is not recommended.

References

Jae Mi Suh, et al. *Mol Endocrinol* 20(12): 3412-3420, 2006.
Jun Qin, et al. *Developmemtal Dynamics* 236: 810-820, 2007.



Rat
Liver Hepatocyte
Frozen section



Rat
Small Intestine epithelial cell
Paraffin section

Related Products

Product	*Conjugate*	*Cat. No.*
Protein A	Sepharose 4B	10-1041
rec-Protein G	Sepharose 4B	10-1241
ZyMAX™ Goat anti-rabbit IgG	Unconjugated	81-6100
ZyMAX™ Goat anti-mouse IgG	Unconjugated	81-6500

Secondary Antibody Conjugates

Conjugate	*Goat anti-rabbit IgG (H+L)*	*Goat anti-mouse IgG (H+L)*	*Ex/Em**	*Fluorescence similar to--*
Alexa Fluor® 488	A11008	A11001	495/519	FITC
Alexa Fluor® 555	A21428	A21422	555/565	Cy3
Alexa Fluor® 594	A11012	A11005	590/617	Texas Red®
Alexa Fluor® 647	A21244	A21235	650/668	Cy5
HRP	81-6120	81-6520	NA**	NA
AP	81-6122	81-6522	NA	NA
Biotin	B2770	B2763	NA	NA

*Excitation/emission (nm); **Not applicable

For additional secondary antibody conjugates, visit www.invitrogen.com/antibodies

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