

Datasheet: VMA00688

Description:	MOUSE ANTI NR1H4
Specificity:	NR1H4
Format:	Purified
Product Type:	PrecisionAb Monoclonal
Clone:	CD01/3F5
Isotype:	IgG1
Quantity:	100 µl

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Western Blotting	■			1/1000

The PrecisionAb label is reserved for antibodies that meet the defined performance criteria within Bio-Rad's ongoing antibody validation programme. Click [here](#) to learn how we validate our PrecisionAb range. Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Further optimization may be required dependent on sample type.

Target Species	Human
Species Cross Reactivity	<p>Reacts with: Mouse, Rat</p> <p>N.B. Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.</p>
Product Form	Purified IgG - Liquid
Preparation	Mouse monoclonal antibody affinity purified on Protein G from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide

Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	<i>E. coli</i> -derived recombinant protein of amino acids 1-486 of human NR1H4
External Database Links	<p>UniProt: Q96RI1 Related reagents</p> <p>Entrez Gene: 9971 NR1H4 Related reagents</p>
Synonyms	BAR, FXR, HRR1, RIP14
Fusion Partners	Spleen cells from immunised BALB/c mice were fused with cells of the mouse SP2/0 myeloma cell line
Specificity	<p>Mouse anti Human NR1H4 antibody recognizes NR1H4, also known as RXR-interacting protein 14, FXR, farnesoid X nuclear receptor, farnesol receptor HRR-1 and HRR1.</p> <p>NR1H4 is a nuclear hormone receptor activated by bile acid and expressed along the length of the gastrointestinal tract (Cariello et al. 2018). NR1H4 is a transcription factor, considered to be a master regulator of synthesis and secretion of bile acid, as well as metabolism of lipids and glucose in the liver and intestine. Furthermore, NR1H4 plays a crucial role in the regulation of inflammatory responses in the intestinal tract, as well as liver inflammation and regeneration. Alterations in NR1H4 play a role in the pathogenicity of gastrointestinal tract diseases including inflammatory bowel disease, colorectal cancer and type II diabetes (Ding et al. 2015). NR1H4 functions as a tumor suppressor and has been suggested as a potential therapeutic target in cancer. As such, synthetic bile acid derivatives have been developed to activate NR1H4 (Erice et al. 2018), and antifibrotic potential has been demonstrated in animal models (Verbeke et al. 2016).</p>
Western Blotting	Mouse anti NR1H4 detects a band of approximately 52 kDa in HepG2 cell lysates
Storage	Store undiluted at -20°C, avoiding repeated freeze thaw cycles
Guarantee	12 months from date of despatch
Acknowledgements	PrecisionAb is a trademark of Bio-Rad Laboratories
Health And Safety Information	Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/VMA00688 Antibody (10040)
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (H/L) (STAR207...) [HRP](#)

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA928\)](#)

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To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets

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