

Datasheet: VMA00688

BATCH NUMBER 100004121

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	Reacts with: Mouse, Rat 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.
Product Form	Purified IgG - Liquid
Preparation	Mouse monoclonal antibody affinity purified on Protein G from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative	0.09% Sodium Azide

Stabilisers

Approx. Protein Concentrations IgG concentration 1.0 mg/ml

Immunogen *E. coli*-derived recombinant protein of amino acids 1-486 of human NR1H4

External Database Links

UniProt:

[Q96R11](#) [Related reagents](#)

Entrez Gene:

[9971](#) NR1H4 [Related reagents](#)

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 **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.

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 (Labiano et al. 2018), and antifibrotic potential has been demonstrated in animal models (Verbeke et al. 2016).

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](#)

North & South Tel: +1 800 265 7376

America Fax: +1 919 878 3751

Email: antibody_sales_us@bio-rad.com

Worldwide

Tel: +44 (0)1865 852 700

Fax: +44 (0)1865 852 739

Email: antibody_sales_uk@bio-rad.com

Europe

Tel: +49 (0) 89 8090 95 21

Fax: +49 (0) 89 8090 95 50

Email: antibody_sales_de@bio-rad.com

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

'M370377:200529'

Printed on 13 Aug 2023

© 2023 Bio-Rad Laboratories Inc | [Legal](#) | [Imprint](#)