

Datasheet: VMA00379KT

Description:	HNF4A ANTIBODY WITH CONTROL LYSATE
Specificity:	HNF4A
Format:	Purified
Product Type:	PrecisionAb Monoclonal
Clone:	OTI2H2
Isotype:	IgG1
Quantity:	2 Westerns

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

PrecisionAb antibodies have been extensively [validated for the western blot application](#). The antibody has been validated at the suggested dilution. 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 dependant on sample type.

Target Species	Human
Product Form	Purified IgG - liquid
Preparation	20µl Mouse monoclonal antibody purified by affinity chromatography from ascites
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃) 1% Bovine Serum Albumin 50% Glycerol
Immunogen	Recombinant protein fragment corresponding to aa 1-315 of human HNF4A (NP_849180) produced in <i>E.coli</i>
External Database	UniProt:

Links

[P41235](#) [Related reagents](#)

Entrez Gene:

[3172](#) HNF4A [Related reagents](#)

Synonyms

HNF4, NR2A1, TCF14

Specificity

Mouse anti Human HNF4A antibody recognizes hepatocyte nuclear factor 4-alpha, also known as TCF-14, nuclear receptor subfamily 2 group A member 1 and transcription factor 14.

Encoded by the HNF4A gene, hepatocyte nuclear factor 4-alpha is a nuclear transcription factor which binds DNA as a homodimer. Hepatocyte nuclear factor 4-alpha controls the expression of several genes, including hepatocyte nuclear factor 1 alpha, a transcription factor which regulates the expression of several hepatic genes. HNF4A may play a role in development of the liver, kidney, and intestines. Mutations in HNF4A have been associated with monogenic autosomal dominant non-insulin-dependent diabetes mellitus type I. Alternative splicing of HNF4A results in multiple transcript variants encoding several different isoforms (provided by RefSeq, Apr 2012).

Mouse anti Human HNF4A antibody detects a band of 52 kDa. The antibody has been extensively validated for western blotting using whole cell lysates.

Western Blotting

Anti HNF4A detects a band of approximately 52 kDa in HepG2 cell lysates

Instructions For Use

Please refer to the [PrecisionAb western blotting protocol](#). For additional information on secondary antibody dilution and exposure time see product web page.

Lysate Composition

400µg HepG2 lysate lyophilized in RIPA buffer

Lysate Reconstitution

- If using DDT reconstitute the lyophilized lysate with 190µl DI H₂O, add 200µl 2x Laemmli Sample Buffer and 10µl 2M DTT.
- If using BME reconstitute the lyophilized lysate with 180µl DI H₂O, add 200µl 2x Laemmli Sample Buffer and 20µl BME.
Heat at 95°C for 5 minutes. For 10 well mini gels load 25µl. For other gel and comb formats please refer to the PrecisionAb western blotting protocol.

Storage

Antibody: Store undiluted at -20°C, avoiding repeated freeze thaw cycles.

Lysate: Store lyophilized lysate at -20°C. After reconstitution aliquot and store at -20°C for up to 3 months or at -80°C for longer term storage.

Guarantee

As supplied, 12 months from date of despatch

Acknowledgements

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Health And Safety Information

Material Safety Datasheet documentation #10048 #10561 available at:
Antibody (10048): <https://www.bio-rad-antibodies.com/uploads/MSDS/10048.pdf>

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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