

Datasheet: VMA00944

BATCH NUMBER 100005721

Description:	MOUSE ANTI ATP6V1E1
Specificity:	ATP6V1E1
Format:	Purified
Product Type:	PrecisionAb Monoclonal
Clone:	AB03/4H1
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 1-226 of human ATP6V1E1

External Database Links

UniProt:
[P36543](#) [Related reagents](#)

Entrez Gene:
[529](#) ATP6V1E1 [Related reagents](#)

Synonyms ATP6E, ATP6E2

Fusion Partners Spleen cells from immunised BALB/c mice were fused with cells of the mouse SP2/0 myeloma cell line

Specificity **Mouse anti ATP6V1E1 antibody** recognizes V-type proton ATPase subunit E 1. ATP6V1E1 encodes the E1 subunit of the V-ATPase, a proton pump which couples ATP hydrolysis to active proton transport across membranes ([Van Damme et al. 2017](#)). The V-ATPase can acidify lysosomes/vacuoles, Golgi, and endosomes, and also functions in proton export from the cell. The complex is also important for multiple cellular processes including protein processing, endocytosis and autophagy ([Hayek et al. 2019](#)). Mutations in the gene encoding ATP6V1E1 cause autosomal-recessive Cutis Laxa, a condition characterized by redundant or wrinkly skin and elastic-fiber fragmentation ([Van Damme et al. 2017](#)).

Western Blotting Mouse anti ATP6V1E1 detects a band of approximately 29 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/VMA00944>
Antibody (10040)

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

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

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

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

'M390068:210823'

Europe

Tel: +49 (0) 89 8090 95 21

Fax: +49 (0) 89 8090 95 50

Email: antibody_sales_de@bio-rad.com

Printed on 25 Mar 2023

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