

## Datasheet: VMA00944

<b>Description:</b>	MOUSE ANTI ATP6V1E1
<b>Specificity:</b>	ATP6V1E1
<b>Format:</b>	Purified
<b>Product Type:</b>	PrecisionAb Monoclonal
<b>Clone:</b>	AB03/4H1
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	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](http://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 Stabilisers

0.09% Sodium Azide

<b>Approx. Protein Concentrations</b>	IgG concentration 1.0 mg/ml
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant protein of amino acids 1-226 of human ATP6V1E1
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">P36543</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">529</a>    ATP6V1E1    <a href="#">Related reagents</a></p>
<b>Synonyms</b>	ATP6E, ATP6E2
<b>Fusion Partners</b>	Spleen cells from immunised BALB/c mice were fused with cells of the mouse SP2/0 myeloma cell line
<b>Specificity</b>	<p><b>Mouse anti ATP6V1E1 antibody</b> 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 (<a href="#">Van Damme et al. 2017</a>). 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 (<a href="#">Hayek et al. 2019</a>). Mutations in the gene encoding ATP6V1E1 cause autosomal-recessive Cutis Laxa, a condition characterized by redundant or wrinkly skin and elastic-fiber fragmentation (<a href="#">Van Damme et al. 2017</a>).</p>
<b>Western Blotting</b>	Mouse anti ATP6V1E1 detects a band of approximately 29 kDa in HepG2 cell lysates
<b>Storage</b>	Store undiluted at -20°C, avoiding repeated freeze thaw cycles
<b>Guarantee</b>	12 months from date of despatch
<b>Acknowledgements</b>	PrecisionAb is a trademark of Bio-Rad Laboratories
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10040 available at: <a href="https://www.bio-rad-antibodies.com/SDS/VMA00944">https://www.bio-rad-antibodies.com/SDS/VMA00944</a> Antibody (10040)
<b>Regulatory</b>	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](https://bio-rad-antibodies.com/datasheets)

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