

Datasheet: VMA00933

Description:	MOUSE ANTI ATP6V1A
Specificity:	ATP6V1A
Format:	Purified
Product Type:	PrecisionAb Monoclonal
Clone:	AB01/4F4
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
Immunoprecipitation	▪			
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 1-350 of human ATP6V1A

External Database Links

UniProt:
[P38606](#) [Related reagents](#)

Entrez Gene:
[523](#) ATP6V1A [Related reagents](#)

Synonyms ATP6A1, ATP6V1A1, VPP2

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

Specificity **Mouse anti ATP6V1A antibody** recognizes V-type proton ATPase catalytic subunit A, also known as ATP6A1, ATP6V1A1, and VPP2.

ATP6V1A forms the A subunit of the V-ATPase complex, essential for maintaining the correct pH of endosomes, lysosomes, and other intracellular compartments ([Smith et al. 2003](#)). The gene encoding ATP6V1A is widely-expressed, and inherited mutations cause cutis laxa symptoms affecting the central nervous system and conferring a risk of life-threatening cardiopulmonary complications ([Damme et al. 2017](#)). Expression of ATP6V1A is regulated by the transcription factor YY1, which has a variety of functions and is upregulated in cervical carcinoma. Elevated expression of ATP6V1A is observed in gastric cancer, but gastric cancer patients with elevated ATP6V1A also have a better prognosis ([Wang et al. 2017](#)).

Western Blotting Mouse anti ATP6V1A detects a band of approximately 72 kDa in HeLa 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: Antibody (10040): <https://www.bio-rad-antibodies.com/uploads/MSDS/10040.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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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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