Datasheet: VMA00964

Description:	MOUSE ANTI COPA
Specificity:	COPA
Format:	Purified
Product Type:	PrecisionAb Monoclonal
Clone:	AB01/4A11
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
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
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	*E. coli*-derived recombinant protein of amino acids 790-1224 of human COPA

External Database Links	**UniProt:** P53621 Related reagents **Entrez Gene:** 1314 COPA Related reagents
Fusion Partners	Spleen cells from immunised BALB/c mice were fused with cells of the mouse SP2/0 myeloma cell line
Specificity	**Mouse anti COPA antibody** recognizes coatomer subunit alpha, also known as alpha-coat protein, HEPCOP. COPA is a subunit of the coatomer protein complex (COPI). The COPI coat is important for maintaining intra-Golgi and retrograde Golgi-ER trafficking of proteins and lipids, and helps maintain the polarized Golgi structure (Bykov et al. 2017). COPI may also be involved with endosomal transport and function (Arakel and Schwappach 2018). Mutations in the gene encoding COPA cause COPA Syndrome, an autosomal dominant disease which typically involves arthritis and interstitial lung disease with pulmonary hemorrhage. The underlying mechanism appears to involve ER stress caused by impaired protein return from the Golgi, possibly resulting in dysregulated autophagy (Vece et al. 2016).
Western Blotting	Mouse anti COPA detects a band of approximately 150 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/VMA00964 Antibody (10040)
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)

North & South America	Tel: +1 800 265 7376 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

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