

Datasheet: VMA00973

Description:	MOUSE ANTI USP8
Specificity:	USP8
Format:	Purified
Product Type:	PrecisionAb Monoclonal
Clone:	AB01/1B5
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 600-1118 of human USP8

External Database Links

UniProt:
[P40818](#) [Related reagents](#)

Entrez Gene:
[9101](#) USP8 [Related reagents](#)

Synonyms KIAA0055, UBPY

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

Specificity **Mouse anti USP8 antibody** recognizes ubiquitin carboxyl-terminal hydrolase 8, also known as deubiquitinating enzyme 8 and hUBPy. USP8 is a ubiquitin-specific protease and essential deubiquitinating enzyme which is known to participate in protein trafficking and receptor tyrosine kinase degradation. It is involved with deubiquitination of EGFR, but the ubiquitination, lysosomal trafficking and/or stability of other transmembrane proteins have also been shown to be regulated by USP8 ([Dufner and Knobeloch 2019](#)). USP8 has been found to regulate mitophagy, and may regulate several components of the autophagy pathway ([Peng et al. 2020](#)). Gain-of-function mutations in USP8 are associated with Cushing disease, a condition in which the pituitary gland releases too much adrenocorticotrophic hormone (ACTH) ([Pivonello et al. 2015](#)). USP8 has been linked to the development of several tumor types, including breast cancer, lung cancer, bladder cancer, and cervical cancer ([Sun et al. 2020](#)).

Western Blotting Mouse anti USP8 detects a band of approximately 141 kDa in MCF-7 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)

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

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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