

## Datasheet: VMA00973

|                      |                        |
|----------------------|------------------------|
| <b>Description:</b>  | MOUSE ANTI USP8        |
| <b>Specificity:</b>  | USP8                   |
| <b>Format:</b>       | Purified               |
| <b>Product Type:</b> | PrecisionAb Monoclonal |
| <b>Clone:</b>        | AB01/1B5               |
| <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 |
|---------------------|-----|----|----------------|--------------------|
| 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.

|                                 |   |
|---------------------------------|---|
| <b>Target Species</b>           | Human   |
| <b>Species Cross Reactivity</b> | Reacts with: Mouse, Rat<br><b>N.B.</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. |
| <b>Product Form</b>             | Purified IgG - Liquid   |
| <b>Preparation</b>              | Mouse monoclonal antibody affinity purified on Protein G from tissue culture supernatant  |
| <b>Buffer Solution</b>          | Phosphate buffered saline   |
| <b>Preservative</b>             | 0.09% Sodium Azide  |

## Stabilisers

|                                |   |
|--------------------------------|---|
| Approx. Protein Concentrations | IgG concentration 1.0 mg/ml   |
| Immunogen                      | <i>E. coli</i> -derived recombinant protein of amino acids 600-1118 of human USP8   |
| External Database Links        | <b>UniProt:</b><br><a href="#">P40818</a> <a href="#">Related reagents</a><br><br><b>Entrez Gene:</b><br><a href="#">9101</a> USP8 <a href="#">Related reagents</a>   |
| 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                    | <b>Mouse anti USP8 antibody</b> 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 ( <a href="#">Dufner and Knobeloch 2019</a> ). USP8 has been found to regulate mitophagy, and may regulate several components of the autophagy pathway ( <a href="#">Peng et al. 2020</a> ). Gain-of-function mutations in USP8 are associated with Cushing disease, a condition in which the pituitary gland releases too much adrenocorticotrophic hormone (ACTH) ( <a href="#">Pivonello et al. 2015</a> ). USP8 has been linked to the development of several tumor types, including breast cancer, lung cancer, bladder cancer, and cervical cancer ( <a href="#">Sun et al. 2020</a> ). |
| 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: <a href="https://www.bio-rad-antibodies.com/SDS/VMA00973">https://www.bio-rad-antibodies.com/SDS/VMA00973</a><br>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 \(MCA928\)](#)

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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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