

Datasheet: VMA00135

Description:	MOUSE ANTI USP5
Specificity:	USP5
Format:	Purified
Product Type:	PrecisionAb Monoclonal
Clone:	OTI1F8
Isotype:	IgG2a
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
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	<p>Reacts with: Mouse, Rat</p> <p>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.</p>
Product Form	Purified IgG - liquid
Preparation	Mouse monoclonal antibody purified by affinity chromatography from ascites.
Buffer Solution	Phosphate buffered saline.
Preservative Stabilisers	<p>0.09% Sodium Azide (NaN₃)</p> <p>1% Bovine Serum Albumin</p> <p>50% Glycerol</p>

Immunogen Full length recombinant human USP5 (NP_003472) produced in HEK293T cells

External Database

Links

UniProt:

[P45974](#)

[Related reagents](#)

Entrez Gene:

[8078](#)

USP5

[Related reagents](#)

Synonyms

ISOT

Specificity

Mouse anti Human USP5 antibody, clone OT11F8 recognizes USP5, also known as deubiquitinating enzyme 5, isopeptidase T, ubiquitin carboxyl-terminal hydrolase 5, ubiquitin isopeptidase T, ubiquitin specific protease 5 (isopeptidase T), ubiquitin thioesterase 5, ubiquitin thiolesterase 5, ubiquitin-specific protease-5 (ubiquitin isopeptidase T) and ubiquitin-specific-processing protease 5.

Ubiquitin dependent proteolysis is a complex pathway of protein metabolism implicated in such diverse cellular functions as maintenance of chromatin structure, receptor function, and degradation of abnormal proteins. A late step of the process involves disassembly of the polyubiquitin chains on degraded proteins into ubiquitin monomers. USP5 disassembles branched polyubiquitin chains by a sequential exo mechanism, starting at the proximal end of the chain ([Wilkinson *et al.* 1995](#)).

Mouse anti Human USP5 antibody detects a band of 105 kDa. The antibody has been extensively validated for western blotting using whole cell lysates.

Western Blotting

Anti USP5 detects a band of approximately 105 kDa in MCF7 cell lysates.

Further Reading

1. Wilkinson KD *et al.* (1995) Metabolism of the polyubiquitin degradation signal: structure, mechanism, and role of isopeptidase T. [Biochemistry. 34 \(44\): 14535-46.](#)

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 #10048 available at: <https://www.bio-rad-antibodies.com/SDS/VMA00135>
Antibody (10048)

Regulatory

For research purposes only.

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (H/L) (STAR207...) [HRP](#)

Recommended Negative Controls

MOUSE IgG2a NEGATIVE CONTROL (MCA929)

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
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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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