

Datasheet: VMA00135

BATCH NUMBER 240615

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	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 purified by affinity chromatography from ascites.
Buffer Solution	Phosphate buffered saline
Preservative	0.09% Sodium Azide (NaN ₃)

Stabilisers	1% Bovine Serum Albumin 50% Glycerol
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	<p>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.</p> <p>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 <i>et al.</i> 1995).</p> <p>Mouse anti Human USP5 antibody detects a band of 105 kDa. The antibody has been extensively validated for western blotting using whole cell lysates.</p>
Western Blotting	Anti USP5 detects a band of approximately 105 kDa in MCF7 cell lysates.
Further Reading	1. Wilkinson KD <i>et al.</i> (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](#)

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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

'M369931:200529'

Printed on 13 Aug 2023

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