

Datasheet: VMA00135

Description:	MOUSE ANTI USP5
Specificity:	USP5
Format:	Purified
Product Type:	PrecisionAb™ Monoclonal
Clone:	OT11F8
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

PrecisionAb antibodies have been extensively [validated for the western blot application](#). The antibody has been validated at the suggested dilution. 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 dependant on sample type.

Target Species	Human
Species Cross Reactivity	Reacts with: Mouse, Rat N.B. Antibody reactivity and working conditions may vary between species.
Product Form	Purified IgG - liquid
Preparation	Mouse monoclonal antibody purified by affinity chromatography from ascites.
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃) 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 **Mouse anti Human USP5 antibody** 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.

Instructions For Use Please refer to the [PrecisionAb western blotting protocol](#). For additional information on secondary antibody dilution and exposure time see product web page.

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.

Shelf Life As supplied, 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: Antibody (10048): <https://www.bio-rad-antibodies.com/uploads/MSDS/10048.pdf>

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 \(MCA929\)](#)

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