

Datasheet: VMA00932

BATCH NUMBER 100005646

Description:	MOUSE ANTI UCHL3
Specificity:	UCHL3
Format:	Purified
Product Type:	PrecisionAb Monoclonal
Clone:	AB04/3F5
Isotype:	IgG2b
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: 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 1-230 of human UCHL3

External Database Links

UniProt:

[P15374](#)

[Related reagents](#)

Entrez Gene:

[7347](#)

UCHL3

[Related reagents](#)

Fusion Partners

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

Specificity

Mouse anti UCHL3 antibody recognizes ubiquitin carboxyl-terminal hydrolase isozyme L3, also known as Ubiquitin thioesterase L3.

Ubiquitin C-terminal hydrolases are deubiquitinating enzymes involved with processing pro-ubiquitin gene products and catalyzing removal of small molecules from ubiquitin ([Han et al. 2018](#)). Regulation of the major pathway for repair of DNA double-strand breaks is achieved in part by UCHL3, maintaining genome integrity ([Nishi et al. 2018](#)). UCHL3 is phosphorylated and activated by ATM in response to DNA damage ([Luo et al. 2016](#)), and plays a role in DNA repair by ubiquitylating TDP1. Disruption of TDP1 can cause neurological disease and resistance to chemotherapy in cancer ([Liao et al. 2018](#)). A role of UCHL3 has been suggested in the response to cancer therapy, with high expression rendering breast cancer cells resistant to radiation and chemotherapy, and low expression sensitizing cells to these treatments ([Luo et al. 2016](#)).

Western Blotting

Mouse anti UCHL3 detects a band of approximately 25 kDa in HEK293 cell lysates

Storage

Store undiluted at -20°C, avoiding repeated freeze thaw cycles

Guarantee

12 months from date of despatch

Acknowledgements

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Health And Safety Information

Material Safety Datasheet documentation #10040 available at: <https://www.bio-rad-antibodies.com/SDS/VMA00932>

Regulatory

For research purposes only

Related Products

Recommended Secondary Antibodies

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

Product inquiries: www.bio-rad-antibodies.com/technical-support

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets
'M387335:210623'

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