

## Datasheet: VMA00075

<b>Description:</b>	MOUSE ANTI DYNEIN LIGHT CHAIN 1 CYTOPLASMIC
<b>Specificity:</b>	DYNEIN LIGHT CHAIN 1 CYTOPLASMIC
<b>Format:</b>	Purified
<b>Product Type:</b>	PrecisionAb Monoclonal
<b>Clone:</b>	AB02/2C7
<b>Isotype:</b>	IgG2b
<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
Western Blotting	▪			1/500 - 1/2000

**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, Mouse

**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 on Protein G from tissue culture supernatant

### Buffer Solution

Phosphate buffered saline

### Preservative

0.09% Sodium Azide (NaN<sub>3</sub>)

## Stabilisers

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**Approx. Protein Concentrations** IgG concentration 1.0 mg/ml

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**Immunogen** E. Coli derived recombinant protein, aa 1-89 of human dynein light chain cytoplasmic

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## External Database Links

**UniProt:**

[P63167](#)    [Related reagents](#)

**Entrez Gene:**

[8655](#) DYNLL1    [Related reagents](#)

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**Synonyms** DLC1, DNCL1, DNCLC1, HDLC1

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**Specificity** **Mouse anti Human dynein light chain 1 cytoplasmic antibody** recognizes dynein light chain 1 cytoplasmic, also known as 8 kDa dynein light chain, DLC8 dynein light chain LC8-type 1 and protein inhibitor of neuronal nitric oxide synthase or PIN.

DYNLL1 forms a component of dynein, a large motor protein which, fuelled by ATP, generates force on microtubules and plays roles in cell division and intracellular transport ([Roberts et al. 2013](#)). Cytoplasmic dynein consists of heavy, intermediate, light intermediate, and light chain subunits. DYNLL1 forms part of a light chain subunit, binds to the N-terminal region of intermediate chains, and can interact with a variety of non-dynein proteins such as myosin V, nNOS and Pak1, suggesting a bridge between dynein and cargo ([Stuchell-Brereton et al. 2011](#)). Independently of its role within dynein, DYNLL1 is also a likely regulator of over a hundred diverse targets ([Jurado et al. 2012](#)). DYNLL1 plays a role in a range of cellular functions, including DNA repair and maintenance of genome stability ([West et al. 2019](#)) and B cell development ([King et al. 2017](#)). Links between DYNLL1 and cancer have been established, for example, deletion of the gene encoding DYNLL1 confers resistance to PARP inhibitors in BRCA1-mutated cells ([Becker et al. 2018](#)).

**Western Blotting** Anti dynein light chain 1 cytoplasmic detects a band of approximately 10 kDa in HEK293 cell lysates.

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

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**Guarantee** 12 months from date of despatch

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**Acknowledgements** PrecisionAb is a trademark of Bio-Rad Laboratories.

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**Health And Safety Information** Material Safety Datasheet documentation #10040 available at: Antibody (10040): <https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf>

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**Regulatory** For research purposes only

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## Related Products

## Recommended Secondary Antibodies

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

## Recommended Negative Controls

[MOUSE IgG2b NEGATIVE CONTROL \(MCA691\)](#)

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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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