

Datasheet: VMA00075

**BATCH NUMBER 100004232**

<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.

<b>Target Species</b>	Human
<b>Species Cross Reactivity</b>	<p>Reacts with: Rat, Mouse</p> <p><b>N.B.</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>
<b>Product Form</b>	Purified IgG - liquid
<b>Preparation</b>	Mouse monoclonal antibody purified by affinity chromatography on Protein G from tissue culture supernatant
<b>Buffer Solution</b>	Phosphate buffered saline

<b>Preservative Stabilisers</b>	0.09% Sodium Azide (NaN <sub>3</sub> )
<b>Approx. Protein Concentrations</b>	IgG concentration 1.0 mg/ml
<b>Immunogen</b>	E. Coli derived recombinant protein, aa 1-89 of human dynein light chain cytoplasmic
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">P63167</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">8655</a>    DYNLL1    <a href="#">Related reagents</a></p>
<b>Synonyms</b>	DLC1, DNCL1, DNCLC1, HDLC1
<b>Specificity</b>	<p><b>Mouse anti Human dynein light chain 1 cytoplasmic antibody</b> 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.</p> <p>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 (<a href="#">Roberts et al. 2013</a>). 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 (<a href="#">Stuchell-Brereton et al. 2011</a>). Independently of its role within dynein, DYNLL1 is also a likely regulator of over a hundred diverse targets (<a href="#">Jurado et al. 2012</a>). DYNLL1 plays a role in a range of cellular functions, including DNA repair and maintenance of genome stability (<a href="#">West et al. 2019</a>) and B cell development (<a href="#">King et al. 2017</a>). 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 (<a href="#">Becker et al. 2018</a>).</p>
<b>Western Blotting</b>	Anti dynein light chain 1 cytoplasmic detects a band of approximately 10 kDa in HEK293 cell lysates.
<b>Storage</b>	Store undiluted at -20°C, avoiding repeated freeze thaw cycles.
<b>Guarantee</b>	12 months from date of despatch
<b>Acknowledgements</b>	PrecisionAb is a trademark of Bio-Rad Laboratories.
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10040 available at: <a href="https://www.bio-rad-antibodies.com/SDS/VMA00075">https://www.bio-rad-antibodies.com/SDS/VMA00075</a> Antibody (10040)
<b>Regulatory</b>	For research purposes only

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## Related Products

### Recommended Secondary Antibodies

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

**North & South** Tel: +1 800 265 7376

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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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