

Datasheet: VMA00075

Description:	MOUSE ANTI DYNEIN LIGHT CHAIN 1 CYTOPLASMIC
Specificity:	DYNEIN LIGHT CHAIN 1 CYTOPLASMIC
Format:	Purified
Product Type:	PrecisionAb Monoclonal
Clone:	AB02/2C7
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	▪			1/500 - 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	<p>Reacts with: Rat, Mouse</p> <p>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.</p>
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 Stabilisers	0.09% Sodium Azide (NaN ₃).

Approx. Protein Concentrations	IgG concentration 1.0 mg/ml.
Immunogen	E. Coli derived recombinant protein, aa 1-89 of human dynein light chain cytoplasmic
External Database Links	<p>UniProt: P63167 Related reagents</p> <p>Entrez Gene: 8655 DYNLL1 Related reagents</p>
Synonyms	DLC1, DNCL1, DNCLC1, HDLC1
Specificity	<p>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.</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 (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).</p>
Western Blotting	Anti dynein light chain 1 cytoplasmic detects a band of approximately 10 kDa in HEK293 cell lysates.
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 #10040 available at: https://www.bio-rad-antibodies.com/SDS/VMA00075 Antibody (10040)
Regulatory	For research purposes only.

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

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