

**DYNLL1 Polyclonal Antibody**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP58315****Specification**

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**DYNLL1 Polyclonal Antibody - Product Information**

|                   |                        |
|-------------------|------------------------|
| Application       | IHC-P, IHC-F, IF, E    |
| Primary Accession | <a href="#">P63167</a> |
| Reactivity        | Rat, Pig, Bovine       |
| Host              | Rabbit                 |
| Clonality         | Polyclonal             |
| Calculated MW     | 10366                  |

**DYNLL1 Polyclonal Antibody - Additional Information****Gene ID** 8655**Other Names**

Dynein light chain 1, cytoplasmic, 8 kDa dynein light chain, DLC8, Dynein light chain LC8-type 1, Protein inhibitor of neuronal nitric oxide synthase, PIN, DYNLL1, DLC1, DNCL1, DNCLC1, HDLC1

**Format**

0.01M TBS(pH7.4), 0.09% (W/V) sodium azide and 50% Glyce

**Storage**

Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

**DYNLL1 Polyclonal Antibody - Protein Information****Name** DYNLL1 {ECO:0000303|Ref.9, ECO:0000312|HGNC:HGNC:15476}**Function**

Acts as one of several non-catalytic accessory components of the cytoplasmic dynein 1 complex that are thought to be involved in linking dynein to cargos and to adapter proteins that regulate dynein function (By similarity). Cytoplasmic dynein 1 acts as a motor for the intracellular retrograde motility of vesicles and organelles along microtubules (By similarity). May play a role in changing or maintaining the spatial distribution of cytoskeletal structures (By similarity). In addition to its role in cytoskeleton and transport, acts as a protein-protein adapter, which inhibits and/or sequesters target proteins (PubMed: [10198631](http://www.uniprot.org/citations/10198631) target="\_blank">10198631</a>, PubMed: [15193260](http://www.uniprot.org/citations/15193260) target="\_blank">15193260</a>, PubMed: [15891768](http://www.uniprot.org/citations/15891768) target="\_blank">15891768</a>, PubMed: [16684779](http://www.uniprot.org/citations/16684779) target="\_blank">16684779</a>, PubMed: [30464262](http://www.uniprot.org/citations/30464262) target="\_blank">30464262</a>, PubMed: [37696958](http://www.uniprot.org/citations/37696958) target="\_blank">37696958</a>). Involved in the response to DNA damage by acting as a key regulator of DNA end resection: when phosphorylated at Ser-88, recruited to DNA double-strand breaks (DSBs) by TP53BP1 and acts by disrupting MRE11 dimerization, thereby inhibiting DNA end

resection (PubMed:<a href="http://www.uniprot.org/citations/30464262" target="\_blank">30464262</a>, PubMed:<a href="http://www.uniprot.org/citations/37696958" target="\_blank">37696958</a>). In a subset of DSBs, DYNLL1 remains unphosphorylated and promotes the recruitment of the Shieldin complex (PubMed:<a href="http://www.uniprot.org/citations/37696958" target="\_blank">37696958</a>). Binds and inhibits the catalytic activity of neuronal nitric oxide synthase/NOS1 (By similarity). Promotes transactivation functions of ESR1 and plays a role in the nuclear localization of ESR1 (PubMed:<a href="http://www.uniprot.org/citations/15891768" target="\_blank">15891768</a>, PubMed:<a href="http://www.uniprot.org/citations/16684779" target="\_blank">16684779</a>). Regulates apoptotic activities of BCL2L11 by sequestering it to microtubules (PubMed:<a href="http://www.uniprot.org/citations/10198631" target="\_blank">10198631</a>, PubMed:<a href="http://www.uniprot.org/citations/15193260" target="\_blank">15193260</a>). Upon apoptotic stimuli the BCL2L11-DYNLL1 complex dissociates from cytoplasmic dynein and translocates to mitochondria and sequesters BCL2 thus neutralizing its antiapoptotic activity (PubMed:<a href="http://www.uniprot.org/citations/10198631" target="\_blank">10198631</a>, PubMed:<a href="http://www.uniprot.org/citations/15193260" target="\_blank">15193260</a>).

#### Cellular Location

Cytoplasm, cytoskeleton, microtubule organizing center, centrosome. Chromosome. Cytoplasm, cytoskeleton. Nucleus Mitochondrion. Note=Upon induction of apoptosis translocates together with BCL2L11 to mitochondria (PubMed:18084006). Recruited to DNA double-strand breaks (DSBs) by TP53BP1 when phosphorylated at Ser-88 (PubMed:37696958)

#### Tissue Location

Ubiquitous (PubMed:8628263). Expressed in testis (PubMed:22965910).

### DYNLL1 Polyclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### DYNLL1 Polyclonal Antibody - Images