

# DYNLL1 Rabbit mAb

Catalog # AP75374

## Product Information

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Application	WB, IHC-P, IP
Primary Accession	<a href="#">P63167</a>
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Monoclonal Antibody
Calculated MW	10366

## Additional Information

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Gene ID	8655
Other Names	DYNLL1
Dilution	WB~~1/500-1/1000 IHC-P~~N/A IP~~N/A
Format	50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% sodium azide and 0.05% BSA.
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

## Protein Information

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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: <a href="#">10198631</a> , PubMed: <a href="#">15193260</a> , PubMed: <a href="#">15891768</a> , PubMed: <a href="#">16684779</a> , PubMed: <a href="#">30464262</a> , PubMed: <a href="#">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="#">30464262</a> , PubMed: <a href="#">37696958</a> ). In a subset of DSBs, DYNLL1 remains unphosphorylated and promotes the recruitment of the Shieldin complex (PubMed: <a href="#">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:[15891768](#), PubMed:[16684779](#)). Regulates apoptotic activities of BCL2L11 by sequestering it to microtubules (PubMed:[10198631](#), PubMed:[15193260](#)). Upon apoptotic stimuli the BCL2L11-DYNLL1 complex dissociates from cytoplasmic dynein and translocates to mitochondria and sequesters BCL2 thus neutralizing its antiapoptotic activity (PubMed:[10198631](#), PubMed:[15193260](#)).

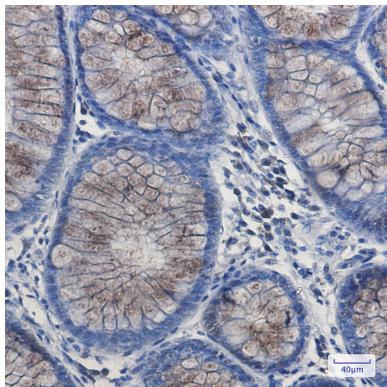
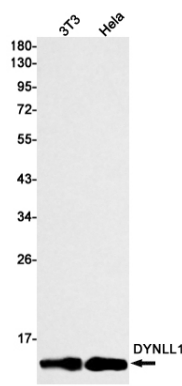
### Cellular Location

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).

## Images



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