

## Anti-DYNLL1 Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

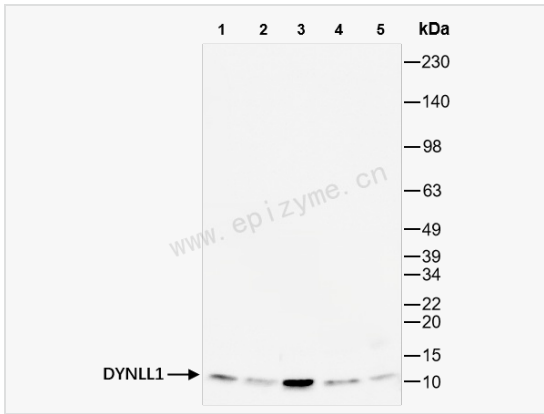
Catalog # R013053

### Product Information

Application	WB, IHC-P/IF (Tissue-P), IF (Cell)/ICC, ELISA
Reactivity	Human, Rat
Dilution	WB 1:1,000~1:3,000; IHC-P 1:100~1:200; IF 1:100~1:200
Host	Rabbit
Clonality	Monoclonal
Clone No.	42K18L41
Isotype	IgG
Label	Unconjugated
Immunogen	A synthesized peptide derived from human DYNLL1
Format	Affinity purified monoclonal antibody supplied in PBS with 0.02% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	Anti-DYNLL1 Rabbit mAb [42K18L41] is for research use only and not for use in diagnostic or therapeutic procedures.

### Protein Information

Synonyms	8 kDa dynein light chain; 8kDLC; Cytoplasmic dynein light polypeptide; DLC1; DLC8; DNCL1; DNCLC1; DYLI_HUMAN; Dynein , cytoplasmic, light chain 1; Dynein light chain 1 cytoplasmic; Dynein light chain 1, cytoplasmic; Dynein light chain LC8 type 1; Dynein light chain LC8-type 1; Dynein, cytoplasmic, light polypeptide 1; Dynein, light chain, LC8-type 1; DYNLL1; HDLC1; LC8; LC8a; MGC126137; MGC126138; MGC72986; PIN; Protein inhibitor of neuronal nitric oxide synthase; Protein inhibitor of neuronal NOS.
Calculated MW	Calculated MW: 10 kDa; Observed MW: 10 kDa
Uniprot ID	P63167
Gene ID	8655
Background	Cytoplasmic dyneins are large enzyme complexes with a molecular mass of about 1,200 kD. They contain two force-producing heads formed primarily from dynein heavy chains, and stalks linking the heads to a basal domain, which contains a varying number of accessory intermediate chains. The complex is involved in intracellular transport and motility. The protein described in this record is a light chain and exists as part of this complex but also physically interacts with and inhibits the activity of neuronal nitric oxide synthase. Binding of this protein destabilizes the neuronal nitric oxide synthase dimer, a conformation necessary for activity, and it may regulate numerous biologic processes through its effects on nitric oxide synthase activity. Alternate transcriptional splice variants have been characterized. [provided by RefSeq, Jul 2008]
Cellular Location	Cytoplasm, cytoskeleton. Nucleus. Mitochondrion. Upon induction of apoptosis translocates together with BCL2L11 to mitochondria.



Western Blot - Anti-DYNLL1 Rabbit mAb [42K18L41]

All lanes: R013053 at 1:3,000 dilution

Lane 1: HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysates

Lane 2: HepG2 (Human hepatocarcinoma epithelial cell) whole cell lysates

Lane 3: SH-SY5Y (Human neuroblastoma epithelial cell) whole cell lysates

Lane 4: C2C12 (Mouse myoblasts epithelial cell) whole cell lysates

Lane 5: Rat brain whole tissue lysates

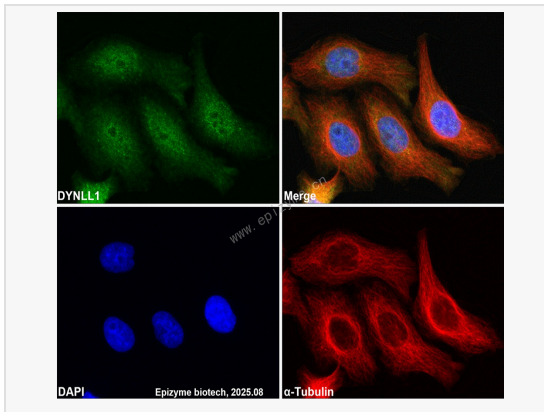
Lysates/proteins at 10 µg per lane.

Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution

Predicted band size: 10 kDa

Observed band size: 10 kDa

Developed using the ECL technique (Cat. No. SQ201).



Immunofluorescence - Anti-DYNLL1 Rabbit mAb [42K18L41]

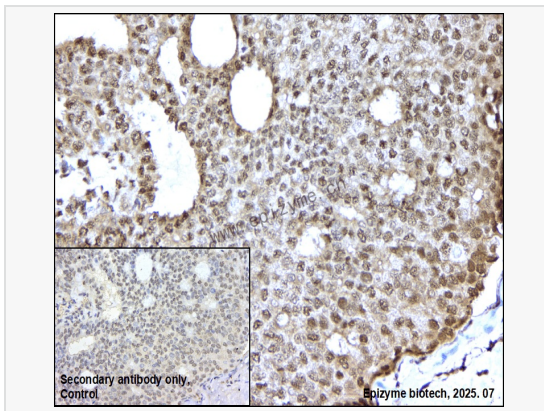
Sample: HeLa cells

The cells were fixed with 4% paraformaldehyde (10 min), permeabilized with 0.5% Triton X-100 for 10 minutes and then blocked with 5% BSA in 0.1% PBS-Tween for 0.5 hours.

Primary antibodies: R013053 at 1:100 dilution and α-tubulin Mouse Monoclonal Antibody (Cat. No. LF209) at 1:100 dilution

Secondary antibodies: Goat anti-Rabbit (488) at 1:1,000 dilution (shown in green) and Goat anti-Mouse (555) at 1:1,000 dilution (shown in red)

Nuclei were stained with DAPI (shown in blue).



Immunohistochemistry - Anti-DYNLL1 Rabbit mAb [42K18L41]

Sample: Paraformaldehyde-fixed, paraffin embedded human breast cancer tissue

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.

Primary antibody: R013053 at 1:200 dilution

Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution DAB was used as the chromogen.

Counter stained with hematoxylin.

Positive/negative staining were presented.

Only the secondary antibody was used as the negative control.