

Rabbit DYNLL1/PIN Polyclonal Antibody | anti-DYNLL1 antibody

Anti-DYNLL1/PIN Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA19276	Rabbit	Human, Mouse, Rat	Western Blot, Immunohistochemistry, Immunocytochemistry, Immunofluorescence, Flow Cytometry, Functional Assay, ELISA

PRODUCT SYNONYMS

DYNLL1/PIN; Polyclonal Antibody; Anti-DYNLL1/PIN Antibody; DYNLL1; DLC1; DNCL1; DNCLC1; HDLC1; 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; dynein light chain LC8-type 1; anti-DYNLL1 antibody

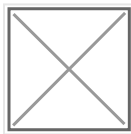
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Rabbit IgG polyclonal antibody for DYNLL1/PIN detection.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4mg Trehalose, 0.9mg NaCl and 0.2mg Na2HPO4.
Applicable Applications for anti-DYNLL1 antibody	WB (Western Blot), IHC (Immunohistochemistry), ICC (Immunocytochemistry), IF (Immunofluorescence), FCM/FACS (Flow Cytometry), ELISA (Direct ELISA)
Application Notes	WB: 0.25-0.5ug/ml Human, Mouse, Rat IHC-P: 2-5ug/ml Human ICC/IF: 5ug/ml Human FC/FACS/FCM: 1-3ug/1x106 cells Human, Mouse, Rat Direct ELISA: 0.1-0.5ug/ml Human
Immunogen	E Coli-derived human DYNLL1/PIN recombinant protein (Position: M1-G89).
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Recommended Detection Systems	Recommended Detection Systems
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.



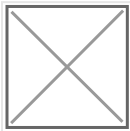
FCM (Flow Cytometry)

Figure 12. Flow Cytometry analysis of U937 cells using anti-DYNLL1/PIN antibody (AAA19276).Overlay histogram showing U937 cells stained with AAA19276 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-DYNLL1/PIN Antibody (AAA19276, 1μg/1x106 cells) for 30 min at 20 degree C. DyLight®488 conjugated goat anti-rabbit IgG (5-10μg/1x106 cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1μg/1x106) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



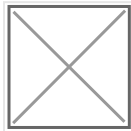
FCM (Flow Cytometry)

Figure 11. Flow Cytometry analysis of NRK cells using anti-DYNLL1/PIN antibody (AAA19276).Overlay histogram showing NRK cells stained with AAA19276 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-DYNLL1/PIN Antibody (AAA19276, 1μg/1x106 cells) for 30 min at 20 degree C. DyLight®488 conjugated goat anti-rabbit IgG (5-10μg/1x106 cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1μg/1x106) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



FCM (Flow Cytometry)

Figure 10. Flow Cytometry analysis of HEPA1-6 cells using anti-DYNLL1/PIN antibody (AAA19276).Overlay histogram showing HEPA1-6 cells stained with AAA19276 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-DYNLL1/PIN Antibody (AAA19276, 1μg/1x106 cells) for 30 min at 20 degree C. DyLight®488 conjugated goat anti-rabbit IgG (5-10μg/1x106 cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1μg/1x106) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



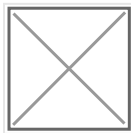
IF (Immunofluorescence)

Figure 9. IF analysis of DYNLL1/PIN using anti- DYNLL1/PIN antibody (AAA19276).DYNLL1/PIN was detected in immunocytochemical section of HepG2 cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5μg/mL rabbit anti- DYNLL1/PIN Antibody (AAA19276) overnight at 4 degree C. DyLight®488 Conjugated Goat Anti-Rabbit IgG was used as secondary antibody at 1:100 dilution and incubated for 30 minutes at 37 degree C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



IHC (Immunohistochemistry)

Figure 8. IHC analysis of DYNLL1/PIN using anti-DYNLL1/PIN antibody (AAA19276).DYNLL1/PIN was detected in paraffin-embedded section of human placenta tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8. 0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2μg/ml rabbit anti-DYNLL1/PIN Antibody (AAA19276) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) (Catalog # with DAB as the chromogen).



IHC (Immunohistochemistry)

Figure 7. IHC analysis of DYNLL1/PIN using anti-DYNLL1/PIN antibody (AAA19276).DYNLL1/PIN was detected in paraffin-embedded section of human ovarian cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8. 0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2μg/ml rabbit anti-DYNLL1/PIN Antibody (AAA19276) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) (Catalog # with DAB as the chromogen).

ADDITIONAL INFORMATION

Related Product Information for anti-DYNLL1 antibody	Dynein light chain 1, cytoplasmic is a protein that in humans is encoded by the DYNLL1 gene. 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.
References	<div>1. Dick, T., Ray, K., Salz, H. K., Chia, W. Cytoplasmic dynein (ddlc1) mutations cause morphogenetic defects and apoptotic cell death in Drosophila melanogaster. Molec. Cell. Biol. 16: 1966-1977, 1996.</div> <div>2. Fuhrmann, J. C., Kins, S., Rostaing, P., El Far, O., Kirsch, J., Sheng, M., Triller, A., Betz, H., Kneussel, M. Gephyrin interacts with dynein light chains 1 and 2, components of motor protein complexes. J. Neurosci. 22: 5393-5402, 2002.</div> <div>3. He, Y. J., Meghani, K., Caron, M. -C., Yang, C., Ronato, D. A., Bian, J., Sharma, A., Moore, J., Niraj, J., Detappe, A., Doench, J. G., Legube, G., Root, D. E., D'Andrea, A. D., Drane, P., De, S., Konstantinopoulos, P. A., Masson, J. -Y., Chowdhury, D. DYNLL1 binds to MRE11 to limit DNA end resection in BRCA1-deficient cells. Nature 563: 522-526, 2018.</div>

NCBI AND UNIPROT INFORMATION

NCBI GI #	83267866
NCBI GeneID	8655
NCBI Accession #	NP_001032583.1
NCBI GenBank Nucleotide #	NM_001037494.1
UniProt Accession #	P63167; Q15701
Molecular Weight	10,366 Da
NCBI Official Full Name	dynein light chain 1, cytoplasmic
NCBI Official Synonym Full Names	dynein, light chain, LC8-type 1
NCBI Official Symbol	DYNLL1
NCBI Official Synonym Symbols	LC8; PIN; DLC1; DLC8; LC8a; DNCL1; hdlc1; DNCLC1
NCBI Protein Information	dynein light chain 1, cytoplasmic; 8 kDa dynein light chain; cytoplasmic dynein light polypeptide; dynein, cytoplasmic, light polypeptide 1; protein inhibitor of neuronal nitric oxide synthase
UniProt Protein Name	Dynein light chain 1, cytoplasmic
UniProt Gene Name	DYNLL1
UniProt Synonym Gene Names	DLC1; DNCL1; DNCLC1; HDLC1; DLC8; PIN
UniProt Entry Name	DYL1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/dynll1-pin-antibody-western-blot-immunohistochemistry-immunocytochemistry-immunofluorescence-flow-cytometry-direct-elisa-elisa/19276>