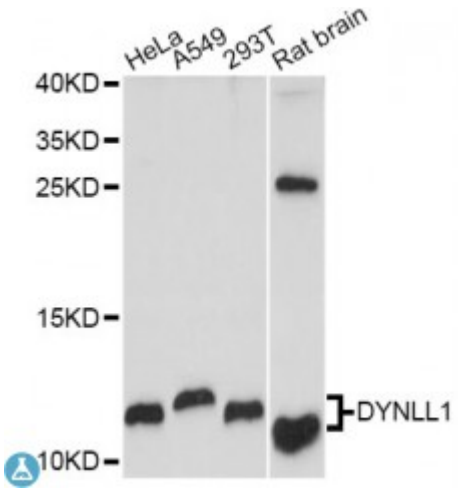
Anti-DYNLL1 Antibody



Description	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.

Model	STJ116707
Host	Rabbit
Reactivity	Human, Rat
Applications	WB
Immunogen	A synthetic peptide corresponding to a sequence within amino acids 1-89 of human DYNLL1 (NP_003737.1).
Gene ID	8655
Gene Symbol	DYNLL1
Dilution range	WB 1:500 - 1:2000
Tissue Specificity	Ubiquitous
Purification	Affinity purification

Note	For Research Use Only (RUO).
Protein Name	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
Molecular Weight	10.366 kDa
Clonality	Polyclonal
Conjugation	Unconjugated
Isotype	IgG
Formulation	PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Storage Instruction	Store at -20C. Avoid freeze / thaw cycles.
Database Links	HGNC:15476OMIM:601562Reactome:R-HSA-111446
Alternative 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
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, Cytoplasmic dynein 1 acts as a motor for the intracellular retrograde motility of vesicles and organelles along microtubules, May play a role in changing or maintaining the spatial distribution of cytoskeletal structures
Cellular Localization	Cytoplasm, cytoskeleton, Nucleus, Mitochondrion,
Post-translational Modifications	Phosphorylation at Ser-88 appears to control the dimer-monomer transition, According to PubMed:15193260, it is phosphorylated at Ser-88 by PAK1, however, according to PubMed:18650427, the DYNLL1 dimer is not accessible for PAK1 and the phosphorylation could not be demonstrated in vitro,