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Product datasheet for TA303752

DYNLL1 Rabbit Monoclonal Antibody [Clone ID: EP1660Y]

Product data:

Product Type:	Primary Antibodies
Clone Name:	EP1660Y
Applications:	IF, IHC, IP, WB
Recommended Dilution:	WB: 1:1000 - 1:10000; IHC-P: Use at an assay dependent dilution; ICC: 1:100 - 1:250; IP: 1:100; ICC/IF: 1:100 - 1:250
Reactivity:	Mouse, Rat, Human, Drosophila melanogaster
Host:	Rabbit
Isotype:	IgG
Clonality:	Monoclonal
Immunogen:	A synthetic peptide corresponding to residues on the N-terminus of human DLC8 was used as an immunogen.
Formulation:	PBS 49%,Sodium azide 0.01%,Glycerol 50%,BSA 0.05%
Purification:	Tissue culture supernatant
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	10 kDa
Gene Name:	dynein light chain LC8-type 1
Database Link:	NP_001032583 Entrez Gene 56455 MouseEntrez Gene 58945 RatEntrez Gene 8655 Human P63167

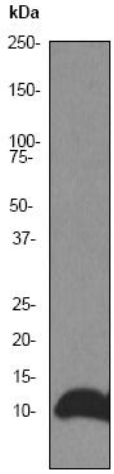
View online »

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]

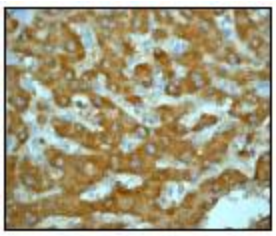
Synonyms: DLC1; DLC8; DNCL1; DNCLC1; hdlc1; LC8; LC8a; PIN

Note: Is unsuitable for Flow Cyt.

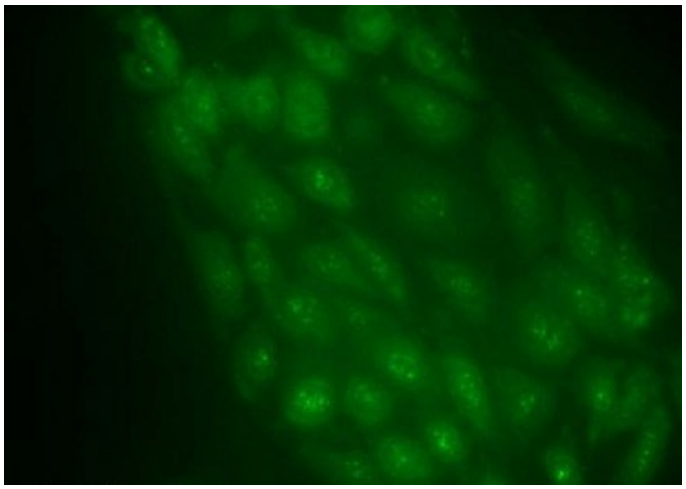
Product images:



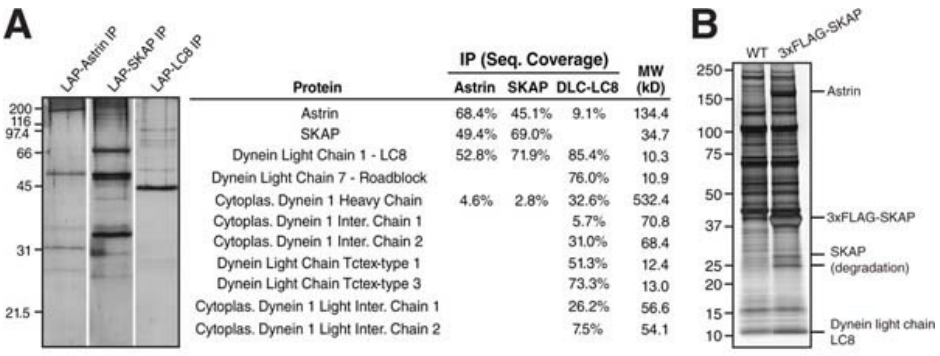
Western blot - DLC8 antibody [EP1660Y]; Anti-DYNLL1 antibody [EP1660Y] at 1/10000 dilution + HeLa cell lysate at 10 ug.Secondary.Goat anti-rabbit HRP at 1/2000 dilution.Predicted band size : 10 kDa.Observed band size : 10 kDa.



Immunohistochemistry (Paraffin-embedded sections) - DLC8 antibody [EP1660Y]; Immunohistochemical staining of paraffin embedded human liver using TA303752 (1/100).



Immunocytochemistry/ Immunofluorescence - DLC8 antibody [EP1660Y]; TA303752 staining DLC8 in mouse kidney cells cells by ICC/IF (immunocytochemistry/immunofluorescence. Cells were fixed with methanol, permeabilized with 0.1% Triton and blocked with 1% milk for 1 hour at room temperature. The sample was incubated with primary antibody (1/400; 1% milk in PBS) for 16 hours at 4°C. An Alexa Fluor?488-conjugated Goat polyclonal to rabbit IgG (1/1000) was used as secondary antibody.



Protein	IP (Seq. Coverage) Astrin	SKAP	DLC-LC8	MW (kD)
Astrin	68.4%	45.1%	9.1%	134.4
SKAP	49.4%	69.0%		34.7
Dynein Light Chain 1 - LC8	52.8%	71.9%	85.4%	10.3
Dynein Light Chain 7 - Roadblock			76.0%	10.9
Cytoplas. Dynein 1 Heavy Chain	4.6%	2.8%	32.6%	532.4
Cytoplas. Dynein 1 Inter. Chain 1			5.7%	70.8
Cytoplas. Dynein 1 Inter. Chain 2			31.0%	68.4
Dynein Light Chain Tctex-type 1			51.3%	12.4
Dynein Light Chain Tctex-type 3			73.3%	13.0
Cytoplas. Dynein 1 Light Inter. Chain 1			26.2%	56.6
Cytoplas. Dynein 1 Light Inter. Chain 2			7.5%	54.1

TA303752 used in IP.SKAP and Astrin form a complex. (A, left) Silver-stained gels showing a one-step IP of GFPLAP-Astrin, GFPLAP-SKAP, or GFPLAP-LC8. (A, right) Data from the mass spectrometric analysis of the purifications indicating the percent sequence coverage from each IP. (B) Silver-stained gel showing the purification of FLAG-SKAP from chicken DT40 cells relative to controls. The indicated proteins were identified by excising them from a gel and analyzing them by mass spectrometry.