

Dynein Light Chain Dnlc2a

Cat. No. CBCRY31 **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Source	E.coli
Background	The human light chain of the motor protein dynein, Dnlc2A, is also a novel TGF-beta-signaling component, which is altered with high frequency in epithelial ovarian cancer. It is an important mediator of dynein and the development of cancer, owing to its ability to bind to the dynein intermediate light chain (DIC) IC74 and to regulate TGF-beta-dependent transcriptional events.
Protein Classification	Transport Protein
Structure Weight	24324.71 Da
Polymer	1
Molecule	Dynein light chain 2A, cytoplasmic
Chain Length	106 amino acids
PDB ID	2HZ5
MMDB ID	53434
Method	X-Ray Diffraction

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Resolution	2.10Å
Ligand Chemical Component	Cesium ion
Reference	Liu, J.-F., Wang, Z.-X., Wang, X.-Q., Tang, Q., An, X.-M., Gui, L.-L., Liang, D.-C. (2006) Crystal structure of human dynein light chain Dnlc2A: Structural insights into the interaction with IC74 Biochem.Biophys.Res.Commun. 349: 1125-1129
GENE INFORMATION	
Gene Name	DYNLRB1
Synonyms	BITH; BLP; DNCL2A; DNLC2A; ROBLD1; OTTHUMP00000030691; ROBL/LC7-like 1; Roadblock-1; bithoraxoid-like protein; cytoplasmic dynein light chain 2A; dynein, cytoplasmic, light polypeptide 2A; dynein-associated protein HKM23; dynein-associated protein Km23; roadblock domain containing 1
UniProt ID	Q9NP97
Gene ID	83658
Chromosome Location	20q11.21
Function	microtubule motor activity; protein binding

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