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KD-Validated Anti-DYNC1LI1 Mouse Monoclonal Antibody

Mouse monoclonal antibody
Catalog # AGI2023

Specification

KD-Validated Anti-DYNC1LI1 Mouse Monoclonal Antibody - Product Information

Application	**WB, FC**
Primary Accession	Q9Y6G9
Reactivity	**Human**
Clonality	**Monoclonal**
Isotype	**Mouse IgG1**
Calculated MW	**Predicted, 57 kDa, observed, 57 kDa KDa**
Gene Name	**DYNC1LI1**
Aliases	**DYNC1LI1; Dynein Cytoplasmic 1 Light Intermediate Chain 1; DNCLI1; Dynein, Cytoplasmic, Light Intermediate Polypeptide 1; Cytoplasmic Dynein 1 Light Intermediate Chain 1; Dynein Light Intermediate Chain 1, Cytosolic 3; Dynein Light Chain A; DLIC-1; DLC-A; LIC1**
Immunogen	**Recombinant protein of human DYNC1LI1**

KD-Validated Anti-DYNC1LI1 Mouse Monoclonal Antibody - Additional Information

Gene ID	**51143**

Other Names
Cytoplasmic dynein 1 light intermediate chain 1, LIC1, Dynein light chain A, DLC-A, Dynein light intermediate chain 1, cytosolic, DLIC-1, DYNC1LI1, DNCLI1

KD-Validated Anti-DYNC1LI1 Mouse Monoclonal Antibody - Protein Information

Name DYNC1LI1

Synonyms DNCLI1

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 binding dynein to membranous organelles or chromosomes. Probably involved in the microtubule-dependent transport of pericentrin. Is required for progress through the spindle assembly checkpoint. The phosphorylated form appears to be involved in the selective removal of MAD1L1 and MAD1L2 but not BUB1B from kinetochores. Forms a functional Rab11/RAB11FIP3/dynein complex onto endosomal membrane that regulates the movement of peripheral sorting endosomes (SE) along microtubule tracks toward the microtubule organizing center/centrosome, generating the endosomal recycling compartment (ERC) (PubMed:20026645).

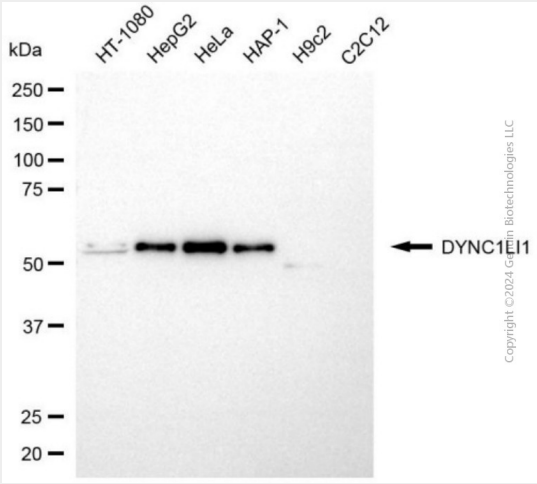
Cellular Location
Cytoplasm. Chromosome, centromere, kinetochore. Cytoplasm, cytoskeleton, spindle pole. Recycling endosome membrane. Note=During interphase, localized in vesicles continuously moving from peripheral sorting endosomes in the cell towards the pericentrosomal endosomal recycling compartment (ERC)

KD-Validated Anti-DYNC1LI1 Mouse Monoclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

KD-Validated Anti-DYNC1LI1 Mouse Monoclonal Antibody - Images



Western blotting analysis using anti-DYNC1LI1 antibody (Cat#AGI2023). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-DYNC1LI1 antibody (Cat#AGI2023, 1:2,500) and HRP-conjugated goat anti-mouse secondary antibody respectively.

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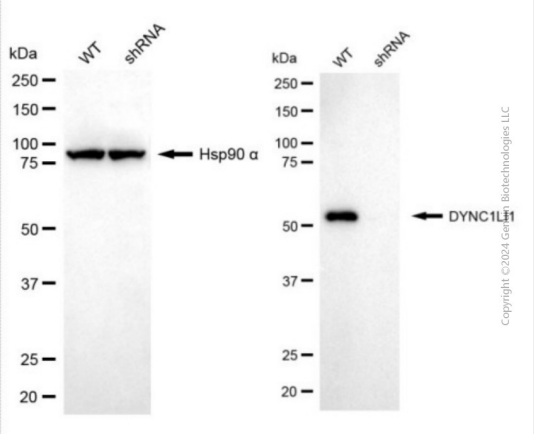
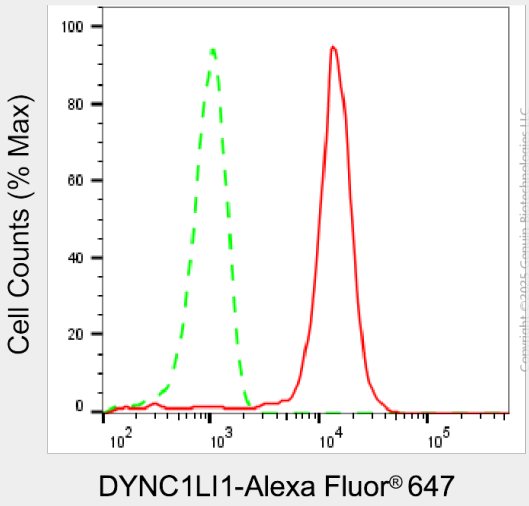


Western blotting analysis using anti-DYNC1LI1 antibody (Cat#AGI2023). DYNC1LI1 expression in wild-type (WT) and DYNC1LI1 shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with anti-DYNC1LI1 antibody (Cat#AGI2023, 1:2,500) and HRP-conjugated goat anti-mouse secondary antibody respectively.



Flow cytometric analysis of DYNC1LI1 expression in HepG2 cells using anti-DYNC1LI1 antibody (Cat#AGI2023, 1:1,000). Green, isotype control; red, DYNC1LI1.