Advanced Targeting Systems

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Antibody to Dynein Light Chain 1/3 (6C4-C12-F8)

MOUSE MONOCLONAL

Catalog Number: AB-V74
Quantity: 100 micrograms
Format: PBS (0.14 M Sodium Chloride; 0.003 M Potassium Chloride; 0.002 M Potassium Phosphate; 0.01 M Sodium Phosphate; pH 7.4), no preservative.
Host: Mouse
Isotype: IgG1
Clone: 6C4-C12-F8
Immunogen: Dynein light chain

Background: Eukaryotic cells depend on actin- and microtubule-based motor proteins to drive intracellular transport. Dyneins are large multi-subunit protein complexes that move cargo toward the minus ends of microtubules. Cytoplasmic dynein plays critical roles in transporting membrane-bound organelles such as endosomes, lysosomes, and mitochondria, as well as in positioning the centrosome, nucleus, and Golgi apparatus. It is also involved in virus transport to the nucleus, retrograde axonal transport, and the movement of microtubules and neurofilaments. Three families of dynein light chains (DYNL) have been described, with DYNLT family members DYNLT1 and DYNLT3 proposed to mediate the attachment of dynein to specific cargoes.

Specificity & Preparation: This IgG1 mouse antibody is generated against Dynein Light Chain and recognizes rat and human homologs of both DYNLT1 and DNYLT3.

Usage: Applications include immunoprecipitation and immunofluorescence. Working dilutions must be determined by end user.

Storage: Store antibody at -20°C for one year. Avoid repeated freezing and thawing. Gently spin down material 5-10 seconds in a microfuge before use.

Scan to view all product references.

Selected References:

1. Lo KW, Kogoy JM, Rasoul BA, King SM, Pfister KK (2007) Interaction of the DYNLT (TCTEX1/RP3) light chains and the intermediate chains reveals novel intersubunit regulation during assembly of the dynein complex. J Biol Chem 282(51):36871-36878. doi: 10.1074/jbc.M705991200 PMID: 17965411

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