

**Antibody to Dynein Light Chain 3 (10A3-C8-A1)**
MOUSE MONOCLONAL

Catalog Number: AB-V72
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: IgG2a
Clone: 10A3-C8-A1
Immunogen: Full-length recombinant human DYNLT3 protein

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 IgG2a mouse antibody is generated against rat Dynein Light Chain 3 (DYNLT3) and recognizes rat and human homologs.

Usage: Applications include western blot 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.

**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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