## Advanced Targeting Systems

**Antibody to Cytoplasmic Dynein (74.1)**
MOUSE MONOCLONAL

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| **Catalog Number:** | AB-V76 |
| **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:** | IgG2b |
| **Clone:** | 74.1 |
| **Immunogen:** | Bovine brain cytoplasmic dynein |

**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 mouse IgG2b antibody generated against bovine brain cytoplasmic dynein and recognizes an epitope in the N-terminal 60 amino acids of the intermediate chain (IC) subunit of cow, mouse, rat, dog, sheep, fish, xenopus, and drosophila homologs.

**Usage:** Applications include western blot, 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.

**Selected References:**

*Scan to view all product references.*

1. Dillman JF 3rd, Pfister KK (1994) Differential phosphorylation in vivo of cytoplasmic dynein associated with anterogradely moving organelles. J Cell Biol 127(6 Pt 1):1671-1681. doi: 10.1083/jcb.127.6.1671 PMID: 7528220

*To view protocol(s) for this and other products please visit: www.ATSbio.com/library/protocols*

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