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# Datasheet for ABIN968308 anti-Dynamitin antibody (AA 55-196)

2 Images

5 Publications



#### Overview

| Quantity:            | 50 µg  |
|----------------------|--|
| Target:              | Dynamitin (DCTN2)                              |
| Binding Specificity: | AA 55-196                                      |
| Reactivity:          | Human, Mouse, Rat, Blow Fly                    |
| Host:                | Mouse  |
| Clonality:           | Monoclonal                                     |
| Conjugate:           | This Dynamitin antibody is un-conjugated       |
| Application:         | Western Blotting (WB), Immunofluorescence (IF) |

## Product Details

| Immunogen:        | Human Dynactin p50 aa. 55-196  |  |
|-------------------|--|--|
| Clone:            | 25-Dynactin p50  |  |
| Isotype:          | lgG1   |  |
| Cross-Reactivity: | Rat (Rattus), Mouse (Murine), Insect   |  |
| Characteristics:  | <ol> <li>Since applications vary, each investigator should titrate the reagent to obtain optimal results.</li> <li>Please refer to us for technical protocols.</li> <li>Source of all serum proteins is from USDA inspected abattoirs located in the United States.</li> <li>Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.</li> </ol> |  |
| Purification:     | The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity  |  |

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### Product Details

chromatography.

## Target Details

| Torgot:             | Dunamitin (DCTN2)  |
|---------------------|--|
| Target:             | Dynamitin (DCTN2)  |
| Alternative Name:   | Dynactin p50 (DCTN2 Products)  |
| Background:         | Dyneins are ubiquitous, multimeric proteins that are responsible for minus end-directed            |
|                     | microtubule-based organelle transport. They are divided into two classes, cytosolic and            |
|                     | axonemal. The activity of cytosolic dynein is regulated by the multiprotein dynactin complex       |
|                     | with which it co-purifies. Dynactin is composed of at least nine polypeptides with p50 being the   |
|                     | second most abundant subunit. The complex consists of an F-actin-like core filament of actin-      |
|                     | related protein Arp1, a heterodimer that acts as a cap at one end, and a 62kDa subunit at the      |
|                     | other end. p150[glued] is the largest subunit of the complex. The precise function of dynactin     |
|                     | remains to be determined, but it may be recruited to prometaphase kinetochores to assist in        |
|                     | alignment and spindle organization during mitosis. Additionally, dynactin localizes at the tail of |
|                     | cytosolic dynein and activates dynein-mediated vesicle movement. Therefore, dynactin may           |
|                     | function to anchor or target dynein to the kinetochore during mitosis.                             |
| Molecular Weight:   | 50 kDa   |
| Pathways:           | M Phase, Ribonucleoprotein Complex Subunit Organization  |
| Application Details |  |
| Comment:            | Related Products: ABIN968537, ABIN967389   |
| Restrictions:       | For Research Use only  |
| Handling            |  |
| Format:             | Liquid   |
| Concentration:      | 250 μg/mL  |
| Buffer:             | Aqueous buffered solution containing BSA, glycerol, and $\leq 0.09$ % sodium azide.                |
| Preservative:       | Sodium azide   |
| Precaution of Use:  | This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which                      |
|                     | should be handled by trained staff only.   |
| Storage:            | -20 °C   |
|                     |  |

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| Handling |  |
|----------|--|
|          |  |

Storage Comment:

Store undiluted at -20° C.

## Publications

Product cited in:

Kuo, Liu, Wei, Lin-Lee, Tatebe, Mills, Unate: "Induction of human MDR1 gene expression by 2acetylaminofluorene is mediated by effectors of the phosphoinositide 3-kinase pathway that activate NF-kappaB signaling." in: **Oncogene**, Vol. 21, Issue 13, pp. 1945-54, (2002) (PubMed).

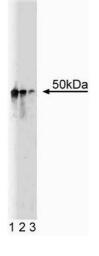
Holleran, Ligon, Tokito, Stankewich, Morrow, Holzbaur: "beta III spectrin binds to the Arp1 subunit of dynactin." in: **The Journal of biological chemistry**, Vol. 276, Issue 39, pp. 36598-605, (2001) (PubMed).

Starr, Williams, Hays, Goldberg: "ZW10 helps recruit dynactin and dynein to the kinetochore." in: **The Journal of cell biology**, Vol. 142, Issue 3, pp. 763-74, (1998) (PubMed).

Burkhardt, Echeverri, Nilsson, Vallee: "Overexpression of the dynamitin (p50) subunit of the dynactin complex disrupts dynein-dependent maintenance of membrane organelle distribution." in: **The Journal of cell biology**, Vol. 139, Issue 2, pp. 469-84, (1997) (PubMed).

Echeverri, Paschal, Vaughan, Vallee: "Molecular characterization of the 50-kD subunit of dynactin reveals function for the complex in chromosome alignment and spindle organization during mitosis." in: **The Journal of cell biology**, Vol. 132, Issue 4, pp. 617-33, (1996) (PubMed).

#### Images

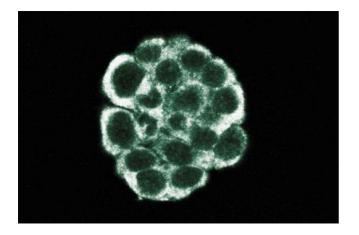


#### Western Blotting

**Image 1.** Western blot analysis of Dynactin p50 on Jurkat cell lysate. Lane 1: 1:250, lane 2: 1:500, lane 3: 1:1000 dilution of anti-Dynactin p50.

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#### Images



Immunofluorescence

Image 2. Immunofluorescent staining of WIDR cells.

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