antibodies.com

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:	 Since applications vary, each investigator should titrate the reagent to obtain optimal results. Please refer to us for technical protocols. Source of all serum proteins is from USDA inspected abattoirs located in the United States. 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. 	
Purification:	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity	

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 1/4 | Product datasheet for ABIN968308 | 02/13/2024 | Copyright antibodies-online. All rights reserved.

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 ≤ 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

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 2/4 | Product datasheet for ABIN968308 | 02/13/2024 | Copyright antibodies-online. All rights reserved.

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).

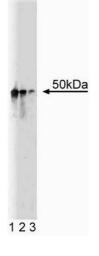
Holleran, Ligon, Tokito, Stankewich, Morrow, Holzbaur: "beta III spectrin binds to the Arp1 subunit of dynactin." in: **The Journal of biological chemistry**, Vol. 276, Issue 39, pp. 36598-605, (2001) (PubMed).

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

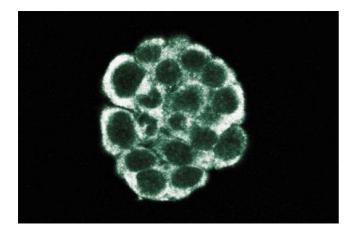


Western Blotting

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.

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 3/4 | Product datasheet for ABIN968308 | 02/13/2024 | Copyright antibodies-online. All rights reserved.

Images



Immunofluorescence

Image 2. Immunofluorescent staining of WIDR cells.

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 4/4 | Product datasheet for ABIN968308 | 02/13/2024 | Copyright antibodies-online. All rights reserved.