Datasheet for ABIN967995

anti-Dynactin 1 antibody (AA 3-202)

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Overview

Quantity:	50 µg
Target:	Dynactin 1 (DCTN1)
Binding Specificity:	AA 3-202
Reactivity:	Human, Mouse, Rat, Dog, Chicken
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This Dynactin 1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), Immunoprecipitation (IP), Immunohistochemistry (Zinc-fixed Sections) (IHC (zinc))

Product Details

Immunogen:	Rat p150 [Glued] aa. 3-202
Clone:	1-p150Glued
Isotype:	IgG1
Cross-Reactivity:	Human, Chicken, Dog (Canine), Mouse (Murine)
Characteristics:	1. Since applications vary, each investigator should titrate the reagent to obtain optimal results. 2. Please refer to us for technical protocols. 3. 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. 4. Source of all serum proteins is from USDA inspected abattoirs located in the United States.

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Product Details

Purification:	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

Target Details

Target:	Dynactin 1 (DCTN1)
Alternative Name:	p150 Glued (DCTN1 Products)
Background:	P150 [Glued] was identified as a polypeptide associated with cytoplasmic dynein, the minus-end-directed microtubule-based motor protein. p150 [Glued] is also a member of the oligomeric dynactin complex. Dynactin mediates dynein-driven vesicle motility, as well as lower eukaryote nuclear transport. p150 [Glued] bears significant homology to the product of the Glued gene in Drosophila. It has been shown in vitro to be a required activator of dynein-mediated transport along microtubules. The p150 [Glued] component of the dynactin complex binds to microtubules and the actin-like protein Centractin (Arp-1), another member of the dynactin complex. In the developing rat, p150 [Glued] is expressed at high levels in neural tissue. Microtubule bindings assays with selected constructs of p150 [Glued] indicate that amino acids 39-150 are required for microtubule association. This antibody is routinely tested by western blot analysis.
Molecular Weight:	150 kDa
Pathways:	M Phase, ER-Nucleus Signaling

Application Details

Comment:	Related Products: ABIN968536, 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.

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Handling

Storage:	-20 °C
Storage Comment:	Store undiluted at -20°C.

Publications

Product cited in:

Kurzchalia: "Anthrax toxin rafts into cells." in: **The Journal of cell biology**, Vol. 160, Issue 3, pp. 295-6, (2003) (PubMed).

Askham, Vaughan, Goodson, Morrison: "Evidence that an interaction between EB1 and p150(Glued) is required for the formation and maintenance of a radial microtubule array anchored at the centrosome." in: **Molecular biology of the cell**, Vol. 13, Issue 10, pp. 3627-45, (2002) (PubMed).

Aumais, Tunstead, McNeil, Schaar, McConnell, Lin, Clark, Yu-Lee: "NudC associates with Lis1 and the dynein motor at the leading pole of neurons." in: **The Journal of neuroscience : the official journal of the Society for Neuroscience**, Vol. 21, Issue 24, pp. RC187, (2001) (PubMed).

Tai, Chuang, Sung: "Cytoplasmic dynein regulation by subunit heterogeneity and its role in apical transport." in: **The Journal of cell biology**, Vol. 153, Issue 7, pp. 1499-509, (2001) (PubMed).

King, Schroer: "Dynactin increases the processivity of the cytoplasmic dynein motor." in: **Nature cell biology**, Vol. 2, Issue 1, pp. 20-4, (2000) (PubMed).

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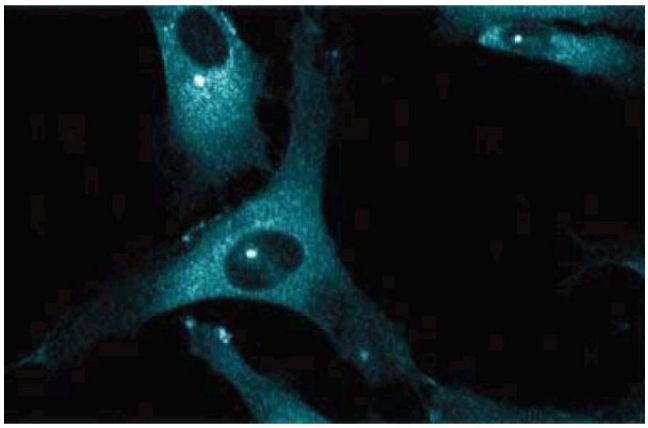
Western Blotting

Image 1. Western blot analysis of p150 [Glued] on a human endothelial cell lysate. Lane 1: 1:250, lane 2: 1:500, lane 3: 1:1000 dilution of the anti- p150 [Glued] antibody.



Immunofluorescence

Image 2. Immunoflourescent staining of human endothelial cells.

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