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Dynactin p150Glued (D1W1O) Rabbit mAb



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Applications: WB, IP, IHC-P	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 150	Source/Isotype: Rabbit IgG	UniProt ID: #Q14203	Entrez-Gene Id: 1639	
Product Usage Information	Ар	Application			Dilution		
	We	Western Blotting				1:1000	
	Imr	Immunoprecipitation				1:50	
	Imr	Immunohistochemistry (Paraffin)				1:100	
Specificity / Sens	prote	Dynactin p150Glued (D1W1O) Rabbit mAb recognizes endogenous levels of total dynactin p150Glued protein. Based on the amino acid sequence of the peptide antigen used, this antibody is expected to detect all isoforms of dynactin p150Glued, including p135.					
Source / Purificat	Purification Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding residues surrounding Val1206 of human dynactin p150Glued protein.						
Background	trans regu proc cyto (4). anaj neui dyne	Cytoplasmic dynein is a multi-subunit motor complex that regulates microtubule organization as well as the transport and positioning of organelles. Dynactin is a multi-subunit dynein-activating complex, which regulates the interaction of the dynein motor with various cellular cargoes, and enhances dynein's processivity. p150Glued/DCTN1/Dynactin 1 is the largest subunit of the dynactin complex (1-3). In mitosis, cytoplasmic dynein regulates spindle organization, chromosome movement and centrosome separation (4). The dynactin subunit p150Glued is phosphorylated at serine 19 by the mitotic kinase aurora A during anaphase, and this phosphorylation is required for the appropriate regulation of spindle assembly (5). In neurons, axonal transport is important for cellular function and survival. Dysfunction and mutations in dynein and dynactin subunits, including p150Glued, have been linked to human neurodegenerative diseases such as Alzheimer's Disease (6-7), Perry Syndrome (8) and ALS (9).					
1. Gill, S.R. et al. (1991) <i>J Cell Biol</i> 115, 1639-50. 2. McGrail, M. et al. (1995) <i>J Cell Biol</i> 131, 411-25. 3. Plamann, M. et al. (1994) <i>J Cell Biol</i> 127, 139-149. 4. Raaijmakers, J.A. and Medema, R.H. (2014) <i>Chromosoma</i> 123, 407-22.							

- 4. Raaiimakers, J.A. and Medema, R.H. (2014) Chromosoma 123, 407-22,
- 5. Reboutier, D. et al. (2013) J Cell Biol 201, 65-79.
- 6. Fujiwara, T. et al. (2012) J Neurochem 122, 162-74.
- 7. Kimura, N. et al. (2016) Am J Pathol, .
- 8. Araki, E. et al. (2014) Mov Disord 29, 1201-4.
- 9. Stockmann, M. et al. (2013) J Neural Transm (Vienna) 120, 785-98.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

WB: Western Blotting IP: Immunoprecipitation IHC-P: Immunohistochemistry (Paraffin)

Cross-Reactivity Key

H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse

GP: Guinea Pig Rab: rabbit All: all species expected

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Limited Uses

Dynactin p150Glued (D1W10) Rabbit mAb (#69399) Datasheet Without Images Cell Signaling Technology

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