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## کې Dynactin p150Glued (D1W1O) Rabbit mAb



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Applications: W, IP, IHC-P	<b>Reactivity:</b> H M R	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 150	<b>Source/Isotype:</b> Rabbit IgG	<b>UniProt ID:</b> #Q14203	Entrez-Gene Id: 1639		
Product Usage Information		<b>Application</b> Western Blotting Immunoprecipitation Immunohistochemistry (Paraffin)			<b>Dilution</b> 1:1000 1:50 1:100			
Specificity/Sensitivity		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 / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Val1206 of human dynactin p150Glued protein.						
Background	nd 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) an ALS (9).							
Background References 1. Gill, S.R. et al. (1991) J Cell Biol 115, 1639-50.   2. McGrail, M. et al. (1995) J Cell Biol 131, 411-25.   3. Plamann, M. et al. (1994) J Cell Biol 127, 139-149.   4. Raaijmakers, 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. (2014) Mov Disord 29, 1201-4.   9. Stockmann, M. et al. (2013) J Neural Transm (Vienna) 120, 785-98.								
Species Reactiv	vity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).						
Western Blot B	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.				n 5% w/v nonfat		
Applications K	ey	W: Western Blotting IP: Immunoprecipitation IHC-P: Immunohistochemistry (Paraffin)				n)		
Cross-Reactivit	ty Key	H: Human M: Mouse R: Rat						
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