

# Dynactin p50 Antibody

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP51160

## Product Information

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Application	WB
Primary Accession	<a href="#">Q13561</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	44231

## Additional Information

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Gene ID	10540
Other Names	Dynactin subunit 2, 50 kDa dynein-associated polypeptide, Dynactin complex 50 kDa subunit, DCTN-50, p50 dynamitin, DCTN2, DCTN50
Dilution	WB~~1:1000
Format	0.01M PBS, pH 7.2, 0.09% (W/V) Sodium azide, Glycerol 50%
Storage	Store at -20 °C.Stable for 12 months from date of receipt

## Protein Information

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Name	DCTN2 ( <a href="#">HGNC:2712</a> )
Synonyms	DCTN50
Function	Part of the dynactin complex that activates the molecular motor dynein for ultra-processive transport along microtubules. In the dynactin soulder domain, binds the ACTR1A filament and acts as a molecular ruler to determine the length (By similarity). Modulates cytoplasmic dynein binding to an organelle, and plays a role in prometaphase chromosome alignment and spindle organization during mitosis. Involved in anchoring microtubules to centrosomes. May play a role in synapse formation during brain development (By similarity).
Cellular Location	Cytoplasm, cytoskeleton, microtubule organizing center, centrosome. Membrane; Peripheral membrane protein. Cytoplasm, cytoskeleton {ECO:0000250 UniProtKB:A0A5G2QD80}

## Background

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Modulates cytoplasmic dynein binding to an organelle, and plays a role in prometaphase chromosome alignment and spindle organization during mitosis. Involved in anchoring microtubules to centrosomes. May play a role in synapse formation during brain development.

## References

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Ota T.,et al.Nat. Genet. 36:40-45(2004).  
Scherer S.E.,et al.Nature 440:346-351(2006).  
Aumais J.P.,et al.Submitted (NOV-2002) to the EMBL/GenBank/DDBJ databases.  
Gevaert K.,et al.Nat. Biotechnol. 21:566-569(2003).

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