

**DCTN2 Antibody (Center)**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP12893c****Specification**

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**DCTN2 Antibody (Center) - Product Information**

Application	WB, IHC-P,E
Primary Accession	<a href="#">Q13561</a>
Other Accession	<a href="#">Q6AYH5</a> , <a href="#">Q99KJ8</a> , <a href="#">Q3ZCF0</a> , <a href="#">NP_006391.1</a> , <a href="#">A0A5G2QD80</a>
Reactivity	Human
Predicted	Bovine, Mouse, Pig, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	44231
Antigen Region	192-219

**DCTN2 Antibody (Center) - Additional Information****Gene ID** 10540**Other Names**

Dynactin subunit 2, 50 kDa dynein-associated polypeptide, Dynactin complex 50 kDa subunit, DCTN-50, p50 dynamitin, DCTN2, DCTN50

**Target/Specificity**

This DCTN2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 192-219 amino acids from the Central region of human DCTN2.

**Dilution**WB~~1:1000  
IHC-P~~1:10~50**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

DCTN2 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

**DCTN2 Antibody (Center) - Protein Information**

**Name** DCTN2 ([HGNC:2712](#))

**Synonyms** DCTN50

**Function** Part of the dynactin complex that activates the molecular motor dynein for ultra-processive transport along microtubules. In the dynactin shoulder 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**

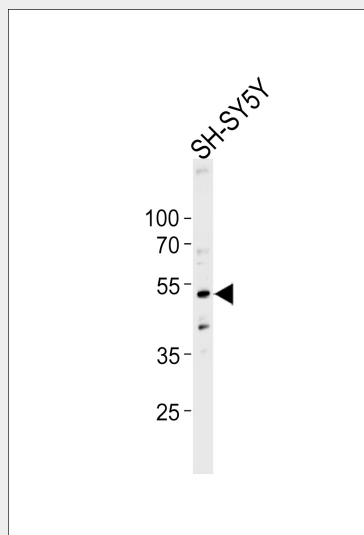
Cytoplasm, cytoskeleton, microtubule organizing center, centrosome. Membrane; Peripheral membrane protein. Cytoplasm, cytoskeleton {ECO:0000250|UniProtKB:A0A5G2QD80}

**DCTN2 Antibody (Center) - Protocols**

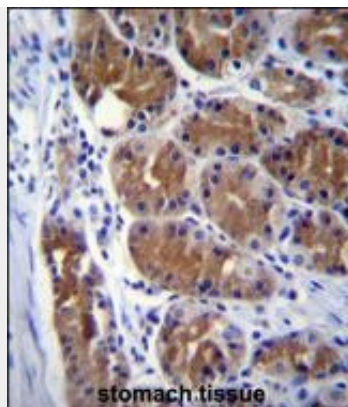
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**DCTN2 Antibody (Center) - Images**



Western blot analysis of lysate from SH-SY5Y cell line, using DCTN2 Antibody (Center)(Cat. #AP12893c). AP12893c was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody. Lysate at 35ug per lane.



DCTN2 Antibody (Center) (Cat. #AP12893c) immunohistochemistry analysis in formalin fixed and paraffin embedded human stomach tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of DCTN2 Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.

#### **DCTN2 Antibody (Center) - Background**

This gene encodes a 50-kD subunit of dynactin, a macromolecular complex consisting of 10-11 subunits ranging in size from 22 to 150 kD. Dynactin binds to both microtubules and cytoplasmic dynein. It is involved in a diverse array of cellular functions, including ER-to-Golgi transport, the centripetal movement of lysosomes and endosomes, spindle formation, chromosome movement, nuclear positioning, and axonogenesis. This subunit is present in 4-5 copies per dynactin molecule. It contains three short alpha-helical coiled-coil domains that may mediate association with self or other dynactin subunits. It may interact directly with the largest subunit (p150) of dynactin and may affix p150 in place.

#### **DCTN2 Antibody (Center) - References**

Jacquot, G., et al. J. Biol. Chem. 285(30):23019-23031(2010)  
Inoue, M., et al. Genes Cells 13(8):905-914(2008)  
Maier, K.C., et al. Traffic 9(4):481-491(2008)  
Lamesch, P., et al. Genomics 89(3):307-315(2007)  
Camargo, L.M., et al. Mol. Psychiatry 12(1):74-86(2007)