10320 Camino Santa Fe, Suite G
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DCTN2 Antibody (Center)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP12893c

Specification

DCTN2 Antibody (Center) - Product Information

Application	**WB, IHC-P,E**
Primary Accession	Q13561
Other Accession	Q6AYH5, Q99KJ8, Q3ZCF0, NP_006391.1, A0A5G2QD80
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
E~~Use at an assay dependent concentration.

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

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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 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).

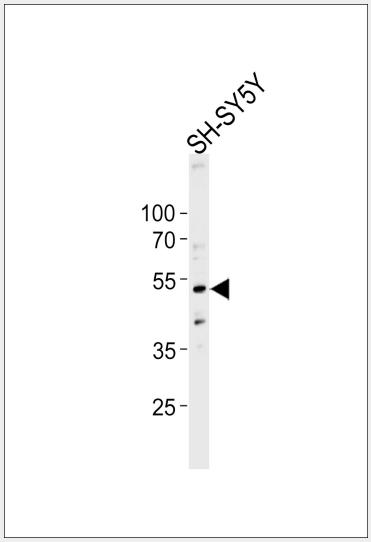
Cellular Location
Cytoplasm, cytoskeleton, microtubule organizing center, centrosome. Membrane; Peripheral membrane protein. Cytoplasm, cytoskeleton {ECO:0000250|UniProtKB:A0A5G2QD80}

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 Cytomety
- 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.

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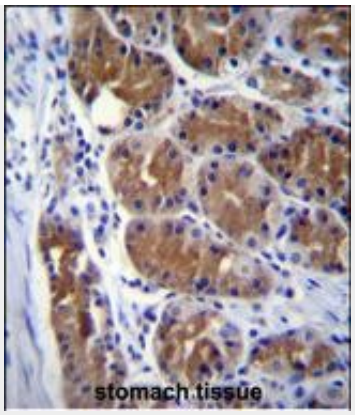

DCTN2 Antibody (Center) (Cat. #AP12893c)immunohistochemistry analysis in formalin fixed and paraffin embedded human stomach tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of DCTN2 Antibody (Center) for immunohistochemistry. Clinical 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

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Inoue, M., et al. Genes Cells 13(8):905-914(2008)
Maier, K.C., et al. Traffic 9(4):481-491(2008)
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