

DCTN2 Antibody (N-term) Blocking Peptide
Synthetic peptide
Catalog # BP6591a

Specification

DCTN2 Antibody (N-term) Blocking Peptide - Product Information

Primary Accession [Q13561](#)

DCTN2 Antibody (N-term) Blocking Peptide - 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

The synthetic peptide sequence used to generate the antibody [AP6591a](#) was selected from the N-term region of human DCTN2. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

DCTN2 Antibody (N-term) Blocking Peptide - Protein Information

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

Synonyms DCTN50

Function

Part of the dyactin complex that activates the molecular motor dynein for ultra-processive transport along microtubules. In the dyactin 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 (N-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

DCTN2 Antibody (N-term) Blocking Peptide - Images

DCTN2 Antibody (N-term) Blocking Peptide - Background

DCTN2 is 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 (N-term) Blocking Peptide - References

Maier,K.C., Traffic 9 (4), 481-491 (2008)