

**DCTN2 Antibody (Center) Blocking peptide**  
**Synthetic peptide**  
**Catalog # BP12893c****Specification**

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**DCTN2 Antibody (Center) Blocking peptide - Product Information**Primary Accession [Q13561](#)**DCTN2 Antibody (Center) 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

**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 (Center) Blocking peptide - 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) Blocking peptide - Protocols**

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

- [Blocking Peptides](#)

#### **DCTN2 Antibody (Center) Blocking peptide - Images**

#### **DCTN2 Antibody (Center) Blocking peptide - 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) Blocking peptide - 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)