

**DCTN4 Antibody (N-term) Blocking peptide**  
**Synthetic peptide**  
**Catalog # BP13454a****Specification**

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**DCTN4 Antibody (N-term) Blocking peptide - Product Information**Primary Accession [Q9UJW0](#)**DCTN4 Antibody (N-term) Blocking peptide - Additional Information****Gene ID** 51164**Other Names**

Dynactin subunit 4, Dyn4, Dynactin subunit p62, DCTN4

**Target/Specificity**

The synthetic peptide sequence used to generate the antibody AP13454a was selected from the N-term region of DCTN4. 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.

**DCTN4 Antibody (N-term) Blocking peptide - Protein Information****Name** DCTN4 ([HGNC:15518](#))**Function**

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

**Cellular Location**

Cytoplasm, cytoskeleton. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome. Cytoplasm, cytoskeleton, stress fiber {ECO:0000250|UniProtKB:Q9QUR2}. Cytoplasm, cell cortex {ECO:0000250|UniProtKB:Q9QUR2}. Cytoplasm, myofibril, sarcomere {ECO:0000250|UniProtKB:Q8CBY8}. Note=Has a punctate cytoplasmic distribution as well as centrosomal distribution typical of dynactin (PubMed:10671518). Overexpression in cultured mammalian cells revealed colocalization with cortical actin, stress fibers, and focal adhesion sites, sites of potential interaction between microtubules and the cell cortex (By similarity). In skeletal muscles, costamere localization requires the presence of ANK2 (By similarity) {ECO:0000250|UniProtKB:Q8CBY8, ECO:0000250|UniProtKB:Q9QUR2,

ECO:0000269|PubMed:10671518}

### **DCTN4 Antibody (N-term) Blocking peptide - Protocols**

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

- [Blocking Peptides](#)

### **DCTN4 Antibody (N-term) Blocking peptide - Images**

### **DCTN4 Antibody (N-term) Blocking peptide - Background**

DCTN4 could have a dual role in dynein targeting and in ACTR1A/Arp1 subunit of dynactin pointed-end capping. Could be involved in ACTR1A pointed-end binding and in additional roles in linking dynein and dynactin to the cortical cytoskeleton.

### **DCTN4 Antibody (N-term) Blocking peptide - References**

Ayalon, G., et al. Cell 135(7):1189-1200(2008)Lim, C.M., et al. J. Biol. Chem. 281(20):14006-14014(2006)Boultonwood, J., et al. Genomics 66(1):26-34(2000)Karki, S., et al. J. Biol. Chem. 275(7):4834-4839(2000)Bingham, J.B., et al. Curr. Biol. 9(4):223-226(1999)