

**DCTN3 Antibody (Center) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP17778c****Specification**

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**DCTN3 Antibody (Center) Blocking Peptide - Product Information**Primary Accession [O75935](#)**DCTN3 Antibody (Center) Blocking Peptide - Additional Information****Gene ID** 11258**Other Names**Dynactin subunit 3, Dynactin complex subunit 22 kDa subunit, p22, DCTN3  
{ECO:0000312|EMBL:CAG466871}, DCTN22**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.

**DCTN3 Antibody (Center) Blocking Peptide - Protein Information****Name** DCTN3 {ECO:0000312|EMBL:CAG46687.1}**Synonyms** DCTN22**Function**

Part of the dynactin complex that activates the molecular motor dynein for ultra-processive transport along microtubules (By similarity). Together with dynein may be involved in spindle assembly and cytokinesis (PubMed:&lt;a href="http://www.uniprot.org/citations/9722614" target="\_blank"&gt;9722614&lt;/a&gt;).

**Cellular Location**Cytoplasm. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome. Chromosome, centromere, kinetochore. Cytoplasm, cytoskeleton, spindle. Cleavage furrow. Midbody  
Note=Localizes to punctate cytoplasmic structures and to the centrosome during interphase, and to kinetochores and to spindle poles throughout mitosis. Colocalizes with dynein to the cleavage furrow and to midbody of dividing cells**Tissue Location**

Ubiquitously expressed. Highly expressed in muscle and pancreas and detected at lower levels in brain

### **DCTN3 Antibody (Center) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

### **DCTN3 Antibody (Center) Blocking Peptide - Images**

### **DCTN3 Antibody (Center) Blocking Peptide - Background**

This gene encodes the smallest subunit of dynactin, a macromolecular complex consisting of 10 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, cytokinesis, chromosome movement, nuclear positioning, and axonogenesis. This subunit, like most other dynactin subunits, exists only as a part of the dynactin complex. It is primarily an alpha-helical protein with very little coiled coil, and binds directly to the largest subunit (p150) of dynactin. Alternative splicing of this gene generates 2 transcript variants. [provided by RefSeq].

### **DCTN3 Antibody (Center) Blocking Peptide - References**

Lim, J., et al. Cell 125(4):801-814(2006) Petretti, C., et al. EMBO Rep. 7(4):418-424(2006) Humphray, S.J., et al. Nature 429(6990):369-374(2004) Lehner, B., et al. Genomics 83(1):153-167(2004) Casenghi, M., et al. Dev. Cell 5(1):113-125(2003)