

**DCTN2, 1-401aa, Human, His tag, E.coli**

**Cat.NO.: TP01841**

3th Edition

**Synonyms:**Dynactin subunit 2 isoform 3, Dynactin 2 (p50), DCTN50, DYNAMITIN, RBP50

**Description:**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. Multiple alternatively spliced transcript variants encoding distinct isoforms have been found for this gene. Recombinant human DCTN2 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.

**Form:**Liquid. In 20mM Tris-HCl(pH8.0) containing 20% glycerol, 0.15M NaCl, 1mM DTT

**Molecular Weight:**46.6kDa (424aa), confirmed by MALDI-TOF

**Sequences:**

MGSSHHHHHSSGLVPRGSHMGSMADPKYADLPGIARNEPDVYETSDLPEDDQAEFDAAEELTSTSVEHIIVNPNA  
AYDKFKDKRVGKGLDFSDRIGKTKRTGYESGEYEMLGEGLVKETPQQKYQRLLEHVQELTTEVEKIKTTVKESA  
TEEKLTVPVLLAKQLAALKQQLVASHLEKLLGPDAAINLTPDGALAKRLLLQLEATKNSKGGSGGKTTGTPPDSSLV  
TYELHSRPEQDKFSQAAKVAELEKRLTELETAVRCDQDAQNPLSAGLQGAQLMETVELLQAKVSALDLAVLDQVEA  
RLQSVLGKVNIEIAKHKASVEDADTQSKVHQLYETIQRWSPIASTLPELVQRLVTIKQLHEQAMQFGQLLTHLDTTQQ  
MIANSLKDNTLLTQVQTTMRENLATVEGNFASIDERMKKLGK

**Purity:**> 95% by HPLC

**Concentration:**0.5 mg/ml (determined by Bradford assay)

**Endotoxin Level:**<1.0 EU per 1 ug of protein (determined by LAL method)

**Storage:**Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.