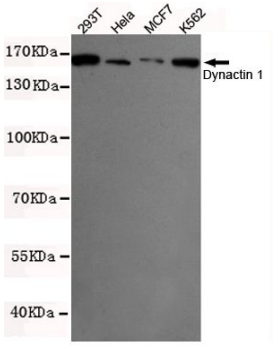
Dynactin 1(N-term)

Mouse monoclonal Antibody

#53110

Catalog Number: 53110
Amount: 100μg/100μl
Swiss-Prot No. :Q14203
Gene name:dctn1
Gene id:1639
Clone Number： 3D5-C6-D5
Form of Antibody: Purified mouse monoclonal in buffer containing 0.1M Tris-Glycine (pH 7.4, 150 mM NaCl) with 0.2% sodium azide, 50%,glycerol
Storage/Stability: Store at -20℃/1 year
Immunogen: Purified recombinant human Dynactin 1 protein fragments expressed in E.coil.
Purification: affinity-chromatography
Specificity/Sensitivity: This antibody detects endogenous levels of Dynactin 1 and does not corss-react with related proteins
Reactivity: Human
Applications:
Predicted MW: 150 kd WB: 1:500



Western blot detection of Dynactin 1 in K562,MCF7,293T and Hela cell lysates using Dynactin 1 mouse mAb(1:500 diluted).Predicted band size:150KDa.Observed band size: 150KDa.

Background :
This gene encodes the largest subunit of dynactin,a macromolecular complex consisting of 10 subunits ranging in size from 22 to 150kD.Dynactin binds to both microtubules and cytoplasmic dynein.Dynactin 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 interacts with dynein intermediate chain by its domains directly binding to dynein and binds to microtubules via a highly conserved glycine-rich cytoskeleton-associated protein (CAP-Gly) domain in its N-terminus.Alternative splicing of this gene results in multiple transcript variants encoding distinct isoforms.Mutations in this gene cause distal hereditary motor neuronopathy type VIIB (HMN7B) which is also known as distal spinal and bulbar muscular atrophy(dSBMA).