Datasheet for ABIN7553616

Dynactin 1 Protein (DCTN1) (AA 1-1278) (His tag)

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Overview

Quantity:	1 mg
Target:	Dynactin 1 (DCTN1)
Protein Characteristics:	AA 1-1278
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Dynactin 1 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat DCTN1 Protein expressed in mammalien cells.
Sequence:	MAQSKRHVYS RTPSGSRMSA EASARPLRVG SRVEVIGKGH RGTVAYVGAT LFATGKWVGV ILDEAKGKND GTVQGRKYFT CDEGHGIFVR QSQIQVFEDG ADTTSPETPD SSASKVLKRE GTDTTAKTSK LRGLKPKKAP TARKTTTRRP KPTRPASTGV AGASSSLGPS GSASAGELSS SEPSTPAQTP LAAPIIPTPV LTSPGAVPPL PSPSKEEEGL RAQVRDLEEK LETLRLKRAE DKAKLKELEK HKIQLEQVQE WKSKMQEQQA DLQRRLKEAR KEAKEALEAK ERYMEEMADT ADAIEMATLD KEMAEERAES LQQEVEALKE RVDELTTDLE ILKAEIEEKG SDGAASSYQL KQLEEQNARL KDALVRMRDL SSSEKQEHVK LQKLMEKKNQ ELEVVRQQRE RLQEELSQAE STIDELKEQV DAALGAEEMV EMLTDRNLNL EEKVRELRET VGDLEAMNEM NDELQENARE TELELREQLD MAGARVREAQ KRVEAAQETV ADYQQTIKKY RQLTAHLQDV NRELTNQQEA SVERQQQPPP ETFDFKIKFA ETKAHAKAIE MELRQMEVAQ ANRHMSLLTA FMPDSFLRPG GDHDCVLVLL LMPRLICKAE LIRKQAQEKF ELSENCSERP GLRGAAGEQL SFAAGLVYSL

Product Details

	SLLQATLHRY EHALSQCSVD VYKKVGSLYP EMSAHERSLD FLIELLHKDQ LDETVNVEPL TKAIKYYQHL YSIHLAEQPE DCTMQLADHI KFTQSALDCM SVEVGRLRAF LQGGQEATDI ALLLRDLETS CSDIRQFCKK IRRRMPGTDA PGIPAALAFG PQVSDTLLDC RKHLTWVVAV LQEVAAAAAQ LIAPLAENEG LLVAALEELA FKASEQIYGT PSSSPYECLR QSCNILISTM NKLATAMQEG EYDAERPPSK PPPVELRAAA LRAEITDAEG LGLKLEDRET VIKELKKSLK IKGEELSEAN VRLSLLEKKL DSAAKDADER IEKVQTRLEE TQALLRKKEK EFEETMDALQ ADIDQLEAEK AELKQRLNSQ SKRTIEGLRG PPPSGIATLV SGIAGEEQQR GAIPGQAPGS VPGPGLVKDS PLLLQQISAM RLHISQLQHE NSILKGAQMK ASLASLPPLH VAKLSHEGPG SELPAGALYR KTSQLLETLN QLSTHTHVVD ITRTSPAAKS PSAQLMEQVA QLKSLSDTVE KLKDEVLKET VSQRPGATVP TDFATFPSSA FLRAKEEQQD DTVYMGKVTF SCAAGFGQRH RLVLTQEQLH QLHSRLIS **Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.**
Characteristics:	Key Benefits: • Made to order protein - from design to production - by highly experienced protein experts. • Protein expressed in mammalien cells and purified in one-step affinity chromatography • The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins. • State-of-the-art algorithm used for plasmid design (Gene synthesis). This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein. If you are not interested in a full length protein, please contact us for individual protein fragments. The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.
Purity:	> 90 % as determined by Bis-Tris Page, Western Blot
Grade:	custom-made

Target Details

Target:	Dynactin 1 (DCTN1)
Alternative Name:	DCTN1 (DCTN1 Products)

Target Details

Background:	Dynactin subunit 1 (150 kDa dynein-associated polypeptide) (DAP-150) (DP-150) (p135) (p150-glued),FUNCTION: Part of the dynactin complex that activates the molecular motor dynein for ultra-processive transport along microtubules (By similarity). Plays a key role in dynein-mediated retrograde transport of vesicles and organelles along microtubules by recruiting and tethering dynein to microtubules. Binds to both dynein and microtubules providing a link between specific cargos, microtubules and dynein. Essential for targeting dynein to microtubule plus ends, recruiting dynein to membranous cargos and enhancing dynein processivity (the ability to move along a microtubule for a long distance without falling off the track). Can also act as a brake to slow the dynein motor during motility along the microtubule (PubMed:25185702). Can regulate microtubule stability by promoting microtubule formation, nucleation and polymerization and by inhibiting microtubule catastrophe in neurons. Inhibits microtubule catastrophe by binding both to microtubules and to tubulin, leading to enhanced microtubule stability along the axon (PubMed:23874158). Plays a role in metaphase spindle orientation (PubMed:22327364). Plays a role in centriole cohesion and subdistal appendage organization and function. Its recruitment to the centriole in a KIF3A-dependent manner is essential for the maintenance of centriole cohesion and the formation of subdistal appendage. Also required for microtubule anchoring at the mother centriole (PubMed:23386061). Plays a role in primary cilia formation (PubMed:25774020). {ECO:0000250|UniProtKB:A0A287B8J2, ECO:0000269|PubMed:22327364, ECO:0000269|PubMed:23386061, ECO:0000269|PubMed:23874158, ECO:0000269|PubMed:25185702, ECO:0000269|PubMed:25774020}.
Molecular Weight:	141.7 kDa
UniProt:	Q14203
Pathways:	M Phase, ER-Nucleus Signaling

Application Details

Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Restrictions:	For Research Use only

Handling

Format:	Liquid

Handling

Buffer:	The buffer composition is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months

