

Datasheet for ABIN7563808
CEP164 Protein (AA 1-1446) (His tag)



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Overview

Quantity:	1 mg
Target:	CEP164
Protein Characteristics:	AA 1-1446
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CEP164 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant Cep164 Protein expressed in mammalian cells.
Sequence:	<p>MARRPILLGD QLVLEEDSDE TYVPSEQEIL DFARVIGIDP IKEPELMWLA REGIEAPLPK GWKPCQNITG DLYYFNFDTG QSIWDHPCDE HYRKLVIQER ERWSAPGAIK KKDKKKKKKEK KNKKDKETSK SPLVLGSPLA LVQAPLWGLA PLRGLGDAPP SALRGSQSVS LGSSADSGHL GEPTLPPQGL KAAACAKGLL ASVHEGKNAL SLLTLGEETN EEDEEESDNQ SVRSSSELLK NLHLDLALG GNFYEESPR TSQPDKKDVS LSDADRPT PGKLSQGAD SSVASANGSK SQGRGASPWN PQKENENSDP KASSQMAPE LDPGGDQPSR ASKKQQAEDP VQAGKEGECR RESAAKEPKE ASALENTSDV SEESEIHGHL KDARHSGSEA SGPKSFLGLD LGFRSRISEH LLDGDTLSPV LGGGHWEAQG LDQEEQDDSK SSIAEPQSKH TQGSEREHLQ SSLHSQATEE GPLQTLEGQP EWKEAEGPGK DSVASPAPLS LLQREQVLSP PASPERAEEK HSQAEELGLE QPEAEETEEK VAVCPSSPVS PEVQTAEPAA PQKLFSEAIL KGMELEEDQR LLEFQKEKP QQLEERLWEE EEEVCQLYQ QKEKLSLLK AQLQKATAEE KEKEETKIR EESRRLVCL RAQVQSRTEA FENQIRTEQQ AALQRLREEA ETLQKAERAS LEQKSRRALE QLREQLAEAE</p>

RSAQAALRAE KEAEKEAALL QLREQLEGER KEAVAGLEKK HSAELEQLCS SLEAKHQEVI
SSLQKKIEGA QKKEAQLQE SLGWAEQRAH QKVHQVTEYE QELSSLLRDK RQEVEREHER
KMDKMKEEHW QEMADARERY EAEERKQRAD LLGHLTGELE RLRRATHEREL ESMRQEQQDQ
LEDLRRRHRD HERKLDLEV ELSSRTKDVK ARLAQLNVQE ENIRKEKQLL LDAQRQAAL
REEATATHQH LEEAKKEHTH LLETQQLRR TIDDLRVRV ELESQVDLLQ AQSURLQKHL
SSLEAEVQRK QDVLKEMAAE MNASPHPEPG LHIEDLRKSL DTNKNQEVSS SLSLSKEEID
LSMESVRQFL SAEGVAVRNA KEFLVRQTRS MRRRQTALKA AQQHWRELA SAQEVEDLPL
GTEVLGNMRK NLNEETRHL D EMKSAMRKGH DLLKKKEEKL IQLESSLQEE VSDEDTLKGS
SIKKVTFDLS DMDDLSSSESL ESSPVLHITP TPTSADPNKI HYLSSSLQRI SSELNGVLNV
LGSLNSQPPP QGLGSQPPPP LFTSSLRSSK NVLDPAYSSQ AKLSSLSSIT PMSTQAWWDP
GQGTKLTSSS SSQTVDDFLL EKWRKYFPSG IPLLSGSPPP PENKLGYSV SEQLHFLQRS
HPRVPRTDGV SIQSLIDSNR KWLEHFRNDP KVQLFSSAPK ATTTSNLSNL LQLGLDENNR
LNVFHY **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.**

Specificity: If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.

Characteristics: Key Benefits:

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian 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, anti-tag ELISA, Western Blot and analytical SEC (HPLC)

Grade: custom-made

Target Details

Target:	CEP164
Alternative Name:	Cep164 (CEP164 Products)
Background:	Centrosomal protein of 164 kDa (Cep164),FUNCTION: Plays a role in microtubule organization and/or maintenance for the formation of primary cilia (PC), a microtubule-based structure that protrudes from the surface of epithelial cells. Plays a critical role in G2/M checkpoint and nuclear divisions. A key player in the DNA damage-activated ATR/ATM signaling cascade since it is required for the proper phosphorylation of H2AX, RPA, CHEK2 and CHEK1. Plays a critical role in chromosome segregation, acting as a mediator required for the maintenance of genomic stability through modulation of MDC1, RPA and CHEK1 (By similarity). {ECO:0000250, ECO:0000269 PubMed:22863007}.
Molecular Weight:	162.6 kDa
UniProt:	Q5DU05
Pathways:	M Phase

Application Details

Application Notes:	We expect the protein to work for functional studies. 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
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