

Datasheet for ABIN7554364
KIF14 Protein (AA 1-1648) (His tag)



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Overview

Quantity:	1 mg
Target:	KIF14
Protein Characteristics:	AA 1-1648
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This KIF14 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant KIF14 Protein expressed in mammalian cells.
Sequence:	MSLHSTHNRN NSGDILDIPS SQNSSSLNAL THSSRLKLHL KSDMSECEND DPLLRSGKV RDINRTYVIS ASRKTADMPL TPNPVGRLAL QRRTRNKES SLLVSELEDT TEKTAETRLT LQRRAKTDSA EKWKTAEIDS VKMTLNVGGE TENNGVSKES RTNVRIVNNA KNSFVASSVP LDEDQVIEM MADKKYKETF SAPSRANENV ALKYSSNRPP IASLSQTEVV RSGHLTTKPT QSKLDIKVLG TGNLYHRSIG KEIAKTSNKF GSLEKRTPTK CTTEHKLTTK CSLPQLKSPA PSILKNRMSN LQVKQRPKSS FLANKQERSA ENTILPEEET VVQNTSAGKD PLKVENSQVT VAVRVRPFTK REKIEKASQV VFMSGKEITV EHPDTKQVYN FIYDVSFWSF DECHPHYASQ TTVYEKLAAP LLERAFEGFN TCLFAYGQTG SGKSYTMMGF SEEPGIIPRF CEDLFSQVAR KQTQEVSYHI EMSFFEYNE KIHDLVCKD ENGQRKQPLR VREHPVYGPY VEALSMNIVS SYADIQSWLE LGNKQRATAA TGMNDKSSRS HSVFTLVMTQ TKTEFVEGEE HDHRITSRIN LIDLAGSERC STAHTNGDRL KEGVSINKSL LTLGKVISAL SEQANQRSVF IPYRESVLTW LLKESLGGNS KTAMIATISP AASNIEETLS TLRYANQARL IVNIAKVND MNAKLIRELK

AEIAKLKAAQ RNSRNIDPER YRLCRQEITS LRMKLHQQER DMAEMQRVWK EKFEQAEKRRK
LQETKELQKA GIMFQMDNHL PNLVNLNEDP QLSEMLLYMI KEGTTTVGKY KPNSSHDIQL
SGVLIADDHC TIKNFGGTVS IIPVGEAKTY VNGKHILEIT VLRHGDRVIL GGDHYFRFNH
PVEVQKGKRP SGRDTPISEG PKDFEFAKNE LLMAQRSQLE AEIKEAQLKA KEEMMQGIQI
AKEMAAQQELS SQKAAYESKI KALEAELREE SQRKKMQEIN NQKANHKIEE LEKAKQHLEQ
EIYVNKKRLE METLATKQAL EDHSIRHARI LEALETEKQK IAKEVQILQQ NRNNRDKTFT
VQTTWSSMKL SMMIQEANAI SSKLKTYVVF GRHDISDKSS SDTSIRVRNL KLGISTFWSL
EKFESKLAAM KELYESNGSN RGEDAFCDPE DEWEPDITDA PVSSLSRRRS RSLMKNRRIS
GCLHDIQVHP IKNLHSSHSS GLMDKSSTIY SNSAESFLPG ICKELIGSSL DFFGQSYDEE
RTIADSLINS FLKIYNGLFA ISKAHEEQDE ESQDNLFSSD RAIQSLTIQT ACAFEQLVVL
MKHWLSDLLP CTNIARLEDE LRQEVKKLGG YLQLFLQGCC LDISSMIKEA QKNAIQIVQQ
AVKYVQQLAV LKGSKLHFLE NGNNKAASVQ EEFMDAVCDG VGLGMKILLD SGLEKAKELQ
HELFRQCTKN EVTKEMKTNA MGLIRSLNI FAESKIKSFR RQVQEENFEY QDFKRMVNRA
PEFLKLKHCL EKAIEIISA LKGCHSDINL LQTCVESIRN LASDFYSDFS VPSTSVGSYE
SRVTHIVHQE LESLAKSLLF CFESEESPD LKPWETYNQN TKEEHQQSKS SGIDGSKNKG
VPKRUYELHG SSPAVSSEEC TPSRIQWV **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

Product Details

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: KIF14

Alternative Name: KIF14 ([KIF14 Products](#))

Background: Kinesin-like protein KIF14,FUNCTION: Microtubule motor protein that binds to microtubules with high affinity through each tubulin heterodimer and has an ATPase activity (By similarity). Plays a role in many processes like cell division, cytokinesis and also in cell proliferation and apoptosis (PubMed:24784001, PubMed:16648480). During cytokinesis, targets to central spindle and midbody through its interaction with PRC1 and CIT respectively (PubMed:16431929). Regulates cell growth through regulation of cell cycle progression and cytokinesis (PubMed:24854087). During cell cycle progression acts through SCF-dependent proteasomal ubiquitin-dependent protein catabolic process which controls CDKN1B degradation, resulting in positive regulation of cyclins, including CCNE1, CCND1 and CCNB1 (PubMed:24854087). During late neurogenesis, regulates the cerebellar, cerebral cortex and olfactory bulb development through regulation of apoptosis, cell proliferation and cell division (By similarity). Also is required for chromosome congression and alignment during mitotic cell cycle process (PubMed:15843429). Regulates cell spreading, focal adhesion dynamics, and cell migration through its interaction with RADIL resulting in regulation of RAP1A-mediated inside-out integrin activation by tethering RADIL on microtubules (PubMed:23209302). {ECO:0000250|UniProtKB:L0N7N1, ECO:0000269|PubMed:15843429, ECO:0000269|PubMed:16431929, ECO:0000269|PubMed:16648480, ECO:0000269|PubMed:23209302, ECO:0000269|PubMed:24784001, ECO:0000269|PubMed:24854087}.

Molecular Weight: 186.5 kDa

UniProt: [Q15058](#)

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.

Application Details

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