

Datasheet for ABIN7554333
KIF7 Protein (AA 1-1343) (His tag)



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Overview

Quantity:	1 mg
Target:	KIF7
Protein Characteristics:	AA 1-1343
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This KIF7 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant KIF7 Protein expressed in mammalian cells.
Sequence:	<p>MGLEAQLPG AEEAPVRVAL RVRLLPKEL LHGHQSCLQV EPGLGRVTLG RDRHFGFHV</p> <p>LAEDAGQEA VYQACVQLLE AFFEGFNATV FAYGQTGSGK TYTMGEASVA SLLEDEQGIV</p> <p>PRAMAEAFKL IDENDLLDCL VHVSYLEVYK EEFRLLEVG TASRDIQLRE DERGNVVLGG</p> <p>VKEVDVEGLD EVLSLLEMGN AARHTGATHL NHLSSRSHTV FVTLEQRGR APSRLPRPAP</p> <p>GQLLVSKFHF VDLAGSERVL KTGSTGERLK ESIQINSSLL ALGNVISALG DPQRRGSHIP</p> <p>YRDSKITRIL KDSLGGNAKT VMIACVSPSS SDFDETLNTL NYASRAQNIR NRATVNWPRPE</p> <p>AERPPEETAS GARGPPRHR ETRIIHRGRR APGPATASAA AAMRLGAECA RYRACTDAAY</p> <p>SLLRELQAEP GLPGAAARKV RDWLCAVEGE RSALSSASGP DSGIESASVE DQAAQGAGGR</p> <p>KEDEGAQQLL TLQNQVARLE EENRDFLAAL EDAMEQYKLQ SDRLREQQEE MVLELRRLLEL</p> <p>VRPGWGGPRL LNGLPPGSFV PRPHTAPLGG AHAHVLGMVP PACLPGDEVG SEQRGEQVTN</p> <p>GREAGAELLT EVNRLGSGSS AASEEEEEEE EPPRTLHLR RNRISNCSQR AGARPGSLPE</p> <p>RKGPELCLEE LDAAIPGSRA VGGSKARVQA RQVPPATASE WRLAQAAQKI RELAINIRMK</p>

EELIGELVRT GKAAQALNRQ HSQRIRELEQ EAEQVRAELS EGQRQLRELE GKELQDAGER
SRLQEFRRRV AAAQSQVQVL KEKKQATERL VLSAQSEKR LQELERNVQL MRQQGQLQR
RLREETEQR RLEAEMSKRQ HRVKELELKH EQQKILKIK TEEIAAFQRK RRSNGSVV
SLEQQQKIEE QKKWLDQEME KVLQQRRALE ELGEELHKRE AILAKKEALM QEKTGLESKR
LRSSQALNED IVRVSSRLEH LEKELSEKSG QLRQGSASQ QQIRGEIDSL RQEKDSSLKQ
RLEIDGKLRQ GSLLSPEER TLFQLDEAIE ALDAAIEYKN EAITCRQRL RASASLLSQ
EMNLMAKLSY LSSSETRALL CKYFDKVVTL REEQHQQQIA FSELEMQLEE QQRLVYWLEV
ALERQRLEMD RQLTLQQKEH EQNMQLLLQQ SRDHLGEGLA DSRQYEARI QALEKELGRY
MWINQELKQK LGGVNAVGHSG RGGEKRSLS EGRQAPGNED ELHLAPELLW LSPLTEGAPR
TREETRDVH APLPLTWKRS SLCGEEQGSP EELRQREAAE PLVGRVLPVG EAGLPWNFGP
LSKPRRELRR ASPGMIDVRK NPL

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:	<p>Key Benefits:</p> <ul style="list-style-type: none">• 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). <p>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.</p> <p>If you are not interested in a full length protein, please contact us for individual protein fragments.</p> <p>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.</p>
Purity:	> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)
Grade:	custom-made

Target Details

Target:	KIF7
Alternative Name:	KIF7 (KIF7 Products)
Background:	Kinesin-like protein KIF7,FUNCTION: Essential for hedgehog signaling regulation: acts both as a negative and positive regulator of sonic hedgehog (Shh) and Indian hedgehog (Ihh) pathways, acting downstream of SMO, through both SUFU-dependent and -independent mechanisms (PubMed:21633164). Involved in the regulation of microtubular dynamics. Required for proper organization of the ciliary tip and control of ciliary localization of SUFU-GLI2 complexes (By similarity). Required for localization of GLI3 to cilia in response to Shh. Negatively regulates Shh signaling by preventing inappropriate activation of the transcriptional activator GLI2 in the absence of ligand. Positively regulates Shh signaling by preventing the processing of the transcription factor GLI3 into its repressor form. In keratinocytes, promotes the dissociation of SUFU-GLI2 complexes, GLI2 nuclear translocation and Shh signaling activation (By similarity). Involved in the regulation of epidermal differentiation and chondrocyte development (By similarity). {ECO:0000250 UniProtKB:B7ZNG0, ECO:0000269 PubMed:21633164}.
Molecular Weight:	150.6 kDa
UniProt:	Q2M1P5
Pathways:	Hedgehog Signaling

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