Datasheet for ABIN7560686

KHDC3 Protein (AA 1-440) (His tag)

Go to Product page

Overview

Quantity:	1 mg
Target:	KHDC3
Protein Characteristics:	AA 1-440
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This KHDC3 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Purpose:	Custom-made recombinat Khdc3 Protein expressed in mammalien cells.
Sequence:	MASLKRFQTL VPLDHKQGTL FEIIGEPKLP KWFHVECLED PKRLYVEPRL LEIMFGKDGE HIPHLESMLH TLIHVNVWGP ERRAEIWIFG PPPFRRDVDR MLTDLAHYCR MKLMEIEALE AGVERRRMAA HKAATQPAPV KVREAAPRPA SVKVPETATQ PAPVKVREAA PQPAPVQEVR EAAPQQASVQ EEVREAATEQ APVQEVREAA TEQAPVQEVS EAATEQAPVQ EVNEAATEQA SVQAVREAAT RPAPGKVRKA ATQPAPVQVC QEATQLAPVK VREAATQPAS GKVREAATQL APVKVRKAAT QLAPVKVHEA ATQPAPGKVS DAATQSASVQ VREAATQLSP VEATDTSQLA QVKADEAFAQ HTSGEAHQVA NGQSPIEVCE TATGQHSLDV SRALSQKCPE VFEWETQSCL DGSYVIVQPP RDAWESFIIL **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:

Product Details

	• 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:	KHDC3
Alternative Name:	Khdc3 (KHDC3 Products)
Background:	KH domain-containing protein 3 (Protein Filia),FUNCTION: As part of the OOEP-KHDC3 scaffold, recruits BLM and TRIM25 to DNA replication forks, thereby promoting the ubiquitination of BLM by TRIM25, enhancing BLM retainment at replication forks and therefore promoting stalled replication fork restart (PubMed:29125140, PubMed:33115731). Regulates homologous recombination-mediated DNA repair via recruitment of RAD51 to sites of DNA double-strand breaks, and sustainment of PARP1 activity, which in turn modulates downstream ATM or ATR activation (PubMed:25936915, PubMed:33115731). Activation of ATM or ATR in response to DNA double-strand breaks may be cell-type specific (PubMed:25936915, PubMed:33115731). Its role in DNA double-strand break repair is independent of its role in restarting stalled replication forks (PubMed:29125140). As a member of the subcortical maternal complex (SCMC), plays an essential role for zygotes to progress beyond the first embryonic cell divisions via regulation of actin dynamics (PubMed:18804437, PubMed:29125140, PubMed:28992324, PubMed:31575650). Required for maintenance of euploidy during cleavage-stage embryogenesis (PubMed:19376971). Required for the formation of F-actin cytoplasmic lattices

Target Details

	in oocytes which in turn are responsible for symmetric division of zygotes via the regulation of mitotic spindle formation and positioning (PubMed:25208553, PubMed:31575650). Ensures proper spindle assembly by regulating the localization of AURKA via RHOA signaling and of PLK1 via a RHOA-independent process (PubMed:19376971). Required for the localization of MAD2L1 to kinetochores to enable spindle assembly checkpoint function (PubMed:19376971). Promotes neural stem cell neurogenesis and neuronal differentiation in the hippocampus (PubMed:33115731). May regulate normal development of learning, memory and anxiety (PubMed:33115731). Capable of binding RNA (PubMed:22276159). {ECO:0000269|PubMed:18804437, ECO:0000269|PubMed:19376971, ECO:0000269|PubMed:22276159, ECO:0000269|PubMed:25208553, ECO:0000269|PubMed:25936915, ECO:0000269|PubMed:28992324, ECO:0000269|PubMed:29125140, ECO:0000269|PubMed:31575650, ECO:0000269|PubMed:33115731}.
Molecular Weight:	48.0 kDa
UniProt:	Q9CWU5

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
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