

Datasheet for ABIN7554400 KRIT1 Protein (AA 1-736) (His tag)



Overview

Quantity:	1 mg
Target:	KRIT1
Protein Characteristics:	AA 1-736
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This KRIT1 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant KRIT1 Protein expressed in mammalian cells.	
Sequence:	MGNPENIEDA YVAVIRPKNT ASLNSREYRA KSYEILLHEV PIEGQKKKRK KVLLETKLQG	
	NSEITQGILD YVVETTKPIS PANQGIRGKR VVLMKKFPLD GEKMGREASL FIVPSVVKDN	
	TKYTYTPGCP IFYCLQDIMR VCSESSTHFA TLTARMLIAL DKWLDERHAQ SHFIPALFRP	
	SPLERIKTNV INPAYATESG QTENSLHMGY SALEIKSKML ALEKADTCIY NPLFGSDLQY	
	TNRVDKVVIN PYFGLGAPDY SKIQIPKQEK WQRSMSSVTE DKERQWVDDF PLHRSACEGD	
	SELLSRLLSE RFSVNQLDSD HWAPIHYACW YGKVEATRIL LEKGKCNPNL LNGQLSSPLH	
	FAAGGGHAEI VQILLNHPET DRHITDQQGR SPLNICEENK QNNWEEAAKL LKEAINKPYE	
	KVRIYRMDGS YRSVELKHGN NTTVQQIMEG MRLSQETQQY FTIWICSENL SLQLKPYHKP	
	LQHVRDWPEI LAELTNLDPQ RETPQLFLRR DVRLPLEVEK QIEDPLAILI LFDEARYNLL	
	KGFYTAPDAK LITLASLLLQ IVYGNYESKK HKQGFLNEEN LKSIVPVTKL KSKAPHWTNR	
	ILHEYKNLST SEGVSKEMHH LQRMFLQNCW EIPTYGAAFF TGQIFTKASP SNHKVIPVYV	
	GVNIKGLHLL NMETKALLIS LKYGCFMWQL GDTDTCFQIH SMENKMSFIV HTKQAGLVVK	

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	LLMKLNGQLM PTERNS 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.
	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:	KRIT1	
Alternative Name:	KRIT1 (KRIT1 Products)	
Background:	Krev interaction trapped protein 1 (Krev interaction trapped 1) (Cerebral cavernous	
	malformations 1 protein),FUNCTION: Component of the CCM signaling pathway which is a	
	crucial regulator of heart and vessel formation and integrity (By similarity). Negative regulator of	
	angiogenesis. Inhibits endothelial proliferation, apoptosis, migration, lumen formation and	
	sprouting angiogenesis in primary endothelial cells. Promotes AKT phosphorylation in a	
	NOTCH-dependent and independent manner, and inhibits ERK1/2 phosphorylation indirectly	
	through activation of the DELTA-NOTCH cascade. Acts in concert with CDH5 to establish and	
	maintain correct endothelial cell polarity and vascular lumen and these effects are mediated by	

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	recruitment and activation of the Par polarity complex and RAP1B. Required for the localization
	of phosphorylated PRKCZ, PARD3, TIAM1 and RAP1B to the cell junction, and cell junction
	stabilization. Plays a role in integrin signaling via its interaction with ITGB1BP1, this prevents
	the interaction between ITGB1 and ITGB1BP1. Microtubule-associated protein that binds to
	phosphatidylinositol 4,5-bisphosphate (PIP2)-containing membranes in a GTP-bound RAP1-
	dependent manner. Plays an important role in the maintenance of the intracellular reactive
	oxygen species (ROS) homeostasis to prevent oxidative cellular damage. Regulates the
	homeostasis of intracellular ROS through an antioxidant pathway involving FOXO1 and SOD2.
	Facilitates the down-regulation of cyclin-D1 (CCND1) levels required for cell transition from
	proliferative growth to quiescence by preventing the accumulation of intracellular ROS through
	the modulation of FOXO1 and SOD2 levels. May play a role in the regulation of macroautophagy
	through the down-regulation of the mTOR pathway (PubMed:26417067).
	{ECO:0000250 UniProtKB:Q6S5J6, ECO:0000269 PubMed:11741838,
	EC0:0000269 PubMed:17916086, EC0:0000269 PubMed:20332120,
	ECO:0000269 PubMed:20616044, ECO:0000269 PubMed:20668652,
	EC0:0000269 PubMed:21633110, EC0:0000269 PubMed:23317506,
	EC0:000269 PubMed:26417067}.
lecular Weight:	84.3 kDa

Molecular Weight:	84.3 kDa
UniProt:	000522
Pathways:	Cell RedoxHomeostasis

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.

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Expiry Date:

12 months

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