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## Datasheet for ABIN3133093 BLK Protein (AA 2-499) (His tag)

Image



#### Overview

Quantity:	1 mg
Target:	BLK
Protein Characteristics:	AA 2-499
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This BLK protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

#### Product Details

	Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a
	SVLEDFYTAT EGQYELQP
	IVTYGRVPYP GMSNPEVIRS LEHGYRMPCP ETCPPELYND IITECWRGRP EERPTFEFLQ
	VSETLCCKIA DFGLARIIDS EYTAQEGAKF PIKWTAPEAI HFGVFTIKAD VWSFGVLLME
	IYIVTEYMAR GCLLDFLKTD EGSRLSLPRL IDMSAQVAEG MAYIERMNSI HRDLRAANIL
	GSGQFGEVWM GYYKNNMKVA IKTLKEGTMS PEAFLGEANV MKTLQHERLV RLYAVVTREP
	YISPRITFPT LQALVQHYSK KGDGLCQKLT LPCVNLAPKN LWAQDEWEIP RQSLKLVRKL
	TISRKDAERQ LLAPMNKAGS FLIRESESNK GAFSLSVKDI TTQGEVVKHY KIRSLDNGGY
	DYAAVNDRDL QVLKGEKLQV LRSTGDWWLA RSLVTGREGY VPSNFVAPVE TLEVEKWFFR
Sequence:	GLLSSKRQVS EKGKGWSPVK IRTQDKAPPP LPPLVVFNHL APPSPNQDPD EEERFVVALF

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Characteristics:       • Made in Germany - from design to production - by highly experienced protein experts.         • Mouse Blk Protein (raised in Insect Cells) purified by multi-step, protein-specific process ensure crystallization grade.       • 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. O experts in the lab will ensure that you receive a correctly folded protein.         The big advantage of ordering our made-to-order proteins in comparison to ordering cust made proteins from other companies is that there is no financial obligation in case the pricannot be expressed or purified.         In the unlikely event that the protein cannot be expressed or purified we do not charge any (other companies might charge you for any performed steps in the expression process for custom-made proteins, e.g. fees might apply for the expression plasmid, the first express experiments or purification optimization).         When you order this made-to-order protein you will only pay upon receival of the correctly folded protein. With no financial risk on your end you can rest assured that our expreinence protein experts will do everything to make sure that you receive the protein you ordered. The concentration of our recombinant proteins is measured using the absorbance at 280 The protein's absorbance will be measured in several dilutions and is measured against it specific reference buffer.         The concentration of the protein is calculated using its specific absorption coefficient. We the Expasy's protparam tool to determine the absorption coefficient of each protein.         Purification:       Two step purification of proteins expressed in baculovirus infected S
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1. In a first purification step, the protein is purified from the cleared cell lysate using three
different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGE.
<ol> <li>Protein containing fractions of the best purification are subjected to second purification through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE an Western blot.</li> </ol>
Purity: >95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Sterility: 0.22 µm filtered
Endotoxin Level: Protein is endotoxin free.
Grade: Crystallography grade

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#### Target Details

Target:	BLK
Alternative Name:	Blk (BLK Products)
Background:	Non-receptor tyrosine kinase involved in B-lymphocyte development, differentiation and
	signaling. B-cell receptor (BCR) signaling requires a tight regulation of several protein tyrosine
	kinases and phosphatases, and associated coreceptors. Binding of antigen to the B-cell antiger
	receptor (BCR) triggers signaling that ultimately leads to B-cell activation. Signaling through
	BLK plays an important role in transmitting signals through surface immunoglobulins and
	supports the pro-B to pre-B transition, as well as the signaling for growth arrest and apoptosis
	downstream of B-cell receptor. Specifically binds and phosphorylates CD79A at 'Tyr-188'and
	'Tyr-199', as well as CD79B at 'Tyr-196' and 'Tyr-207'. Phosphorylates also the immunoglobulin
	G receptor FCGR2. With FYN and LYN, plays an essential role in pre-B-cell receptor (pre-BCR)-
	mediated NF-kappa-B activation. Contributes also to BTK activation by indirectly stimulating
	BTK intramolecular autophosphorylation. In pancreatic islets, acts as a modulator of beta-cells
	function through the up-regulation of PDX1 and NKX6-1 and consequent stimulation of insulin
	secretion in response to glucose. {ECO:0000269 PubMed:12563261,
	ECO:0000269 PubMed:14662906, ECO:0000269 PubMed:2404338,
	ECO:0000269 PubMed:7565679, ECO:0000269 PubMed:7592958,
	ECO:0000269 PubMed:7608542, ECO:0000269 PubMed:7690139,
	ECO:0000269 PubMed:9177269, ECO:0000269 PubMed:9636152}.
Molecular Weight:	57.5 kDa Including tag.
UniProt:	P16277
Pathways:	Positive Regulation of Peptide Hormone Secretion, CXCR4-mediated Signaling Events,
	Thromboxane A2 Receptor Signaling
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 gurantee
	though.

Comment:	Protein has not been tested for activity yet. In cases in which it is highly likely that the
	recombinant protein with the default tag will be insoluble our protein lab may suggest a higher
	molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible
	options with you in detail to assure that you receive your protein of interest.
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Restrictions:

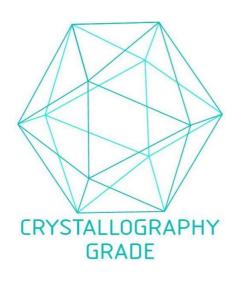
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#### Handling

Format:	Liquid
Buffer:	100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value 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:	Unlimited (if stored properly)

### Images



**Image 1.** "Crystallography Grade" protein due to multi-step, protein-specific purification process