

## Product datasheet

# Recombinant Human BLK protein ab172848

### Overview

<b>Product name</b>	Recombinant Human BLK protein
<b>Protein length</b>	Full length protein

### Description

<b>Nature</b>	Recombinant
<b>Source</b>	Escherichia coli
<b>Amino Acid Sequence</b>	
<b>Accession</b>	<a href="#">P51451</a>
<b>Species</b>	Human

<b>Sequence</b>	<p>MGLVSSKKPDKEKPIKEKDKGQWSPLKVSAQDKDAP          PLPPLVVFNHLTPP          PPDEHLDEDKHFVVALYDYTAMNDRDLQMLKGEKLQ          VLKGTGDWWLARS          VTGREGYVPSNFVARVESLEMERWFFRSQGRKEAER          QLLAPINKAGSFLI          RESETNKGAFSLSVKDVTTQGELIKHYKIRCLDEGGYI          SPRITFPSLQA          LVQHYSKKGDGLCQRLTLPVVRPAPQNPWAQDEWEI          PRQSLRLVRKLGSG          QFGEVWMGYKNNMKVAIKTLKEGTMSPEAFLGEANV          MKALQHERLVRLY          AVVTKEPIYVTEYMARGCLLDLFLKTDEGSRLSLPRLID          MSAQIAEGMAY          IERMNSIHRDLRAANILVSEALCCKIADDFGLARIIDSEYTA          QEGAKFPIK          WTAPEAIHFGVFTIKADVWSFGVLLMEVVTYGRVPYPG          MSNPEVIRNLER          GYRMPRPDTCPELYRGVIAECWRSRPEERPTFEFLQ          SVLEDFYTATERQ YELQPLE</p>
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<b>Molecular weight</b>	59 kDa including tags
<b>Amino acids</b>	1 to 505
<b>Tags</b>	His tag C-Terminus

## Specifications

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Our [Abpromise guarantee](#) covers the use of **ab172848** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<b>Applications</b>	HPLC SDS-PAGE
<b>Endotoxin level</b>	< 1.000 Eu/μg
<b>Purity</b>	>95% by SDS-PAGE . ab172848 is greater than 95% pure, as determined by SEC-HPLC and reducing SDS-PAGE. It is supplied as an 0.2 μM filtered solution.
<b>Form</b>	Liquid

## Preparation and Storage

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<b>Stability and Storage</b>	Shipped on Dry Ice. Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle. pH: 7.4 Constituents: 0.24% Tris, 2.9% Sodium chloride, 0.02% DTT
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## General Info

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<b>Function</b>	Modulator of beta-cells function, acting through the up-regulation of PDX1 and NKX6-1 and consequent stimulation of insulin secretion in response to glucose.
<b>Tissue specificity</b>	Expressed in lymphatic organs, pancreatic islets, Leydig cells, striate ducts of salivary glands and hair follicles.
<b>Involvement in disease</b>	Defects in BLK are a cause of maturity-onset diabetes of the young type 11 (MODY11) [MIM:613375]. MODY11 is a form of diabetes that is characterized by an autosomal dominant mode of inheritance, onset in childhood or early adulthood (usually before 25 years of age), a primary defect in insulin secretion and frequent insulin-independence at the beginning of the disease.
<b>Sequence similarities</b>	Belongs to the protein kinase superfamily. Tyr protein kinase family. SRC subfamily. Contains 1 protein kinase domain. Contains 1 SH2 domain. Contains 1 SH3 domain.

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**Please note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

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- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
  
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

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