

Datasheet for ABIN3122859

BPIFB1 Protein (AA 22-474) (His tag)**3** Images[Go to Product page](#)

Overview

Quantity:	1 mg
Target:	BPIFB1
Protein Characteristics:	AA 22-474
Origin:	Mouse
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This BPIFB1 protein is labelled with His tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)

Product Details

Sequence:	MNVYPPAVL NLGPEVIQKH LTQALKDHDA TAILQELPLL RAMQDKSGSI PILDSFVHTV LRYIIWMKVT SANILQLDVQ PSTYDQELVV RIPLDMVAGL NTPLIKTIVE FQMSTEVQAL IRVERSKSGP AHLNLSDCSS NESTLRLSLL HKLSFVVNSL AKNVMNLLVP ALPQIVKNHL CPVIQAFDD MYEDFLRLTT APIALSPGAL EFGLLSPAQ DSNILLNLKA KLLDSQARVT NWFNNSATSL METTPDRAPF SLTVRQDLVN AIVTTLPKE ELVILLRFVI PDVARQLQMD IKEINAAAN KLGPTQMLKI FTHSTPHIVL NEGSARAAQS VVLEVFPTNT DVRPFFSLGI EASIEAQFFT EDNRLMLNFN NVSIERIKLM ISDIKLFDPV VLKDTLTKIL EYTLNPNENG KLRTGVPMMSKALGYEKAMW SVSKGALKLT PASSHHHHHH
Characteristics:	<p>The concentration of our recombinant proteins is measured using the absorbance at 280nm.</p> <p>The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer.</p> <p>The concentration of the protein is calculated using its specific absorption coefficient. We use</p>

Product Details

the Expasy's protparam tool to determine the absorption coefficient of each protein.

Purification:	Two step purification of proteins expressed in bacterial culture: 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. 2. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.
Purity:	>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Sterility:	0.22 µm filtered
Endotoxin Level:	Endotoxin has not been removed. Please contact us if you require endotoxin removal.
Grade:	Crystallography grade

Target Details

Target:	BPIFB1
Alternative Name:	Bpifb1 (BPIFB1 Products)
Background:	May play a role in innate immunity in mouth, nose and lungs. Binds bacterial lipopolysaccharide (LPS) and modulates the cellular responses to LPS. May be involved in formation of the left-right axis in the node of the developing embryo. {ECO:0000269 PubMed:14745963, ECO:0000269 PubMed:15028288}.
Molecular Weight:	51.3 kDa Including tag.
UniProt:	Q61114

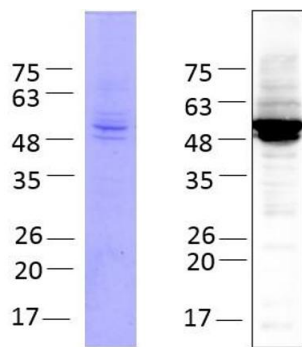
Application Details

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.
Comment:	C-terminal His-tag
Restrictions:	For Research Use only

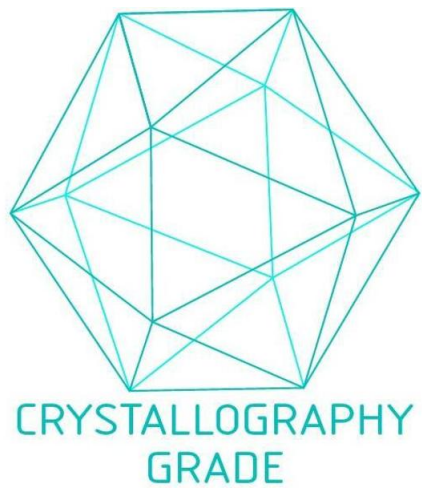
Handling

Format:	Liquid
Buffer:	(20 mM Hepes, pH 7.4; 50 mM NaCl; 0,1% Triton
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)

Images



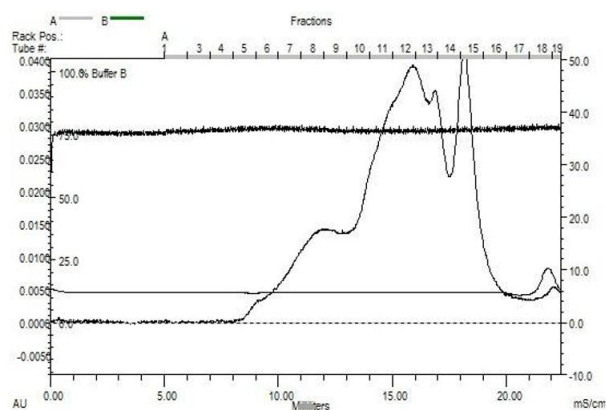
BPI Fold Containing Family B,
Member 1 (BPIFB1)
(AA 22-474), fraction 12 - 13



Western Blotting

Image 1. Quality Control Images: Western Blotting + SDS-PAGE

Image 2. „Crystallography Grade“ protein due to multi-step, protein-specific purification process



BPI Fold Containing Family B, Member 1 (BPIFB1)
(AA 22-474), Superose 6, fraction 12 - 13

Size-exclusion chromatography-High Pressure Liquid Chromatography

Image 3. SEC