

Datasheet for ABIN3094534  
**PIBF1 Protein (AA 1-757) (His tag)**[Go to Product page](#)

## 1 Image

## Overview

Quantity:	1 mg
Target:	PIBF1
Protein Characteristics:	AA 1-757
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This PIBF1 protein is labelled with His tag.
Application:	Western Blotting (WB), ELISA, SDS-PAGE (SDS), Crystallization (Crys)

## Product Details

Sequence:	MSRKISKESK KVNISSSLES EDISLETTVP TDDISSEER EGKVRITRQL IERKELLHNI QLLKIELSQK TMMIDNLKVD YLTKIEELE KLNDALHQKQ LLTLRLDNQL AFQKQDASKY QELMKQEMET ILLRQKQLEE TNLQLREKAG DVRRNLRDFE LTEEQYIKLK AFPEDQLSIP EYVSVRFYEL VNPLRKEICE LQVKKNILAE ELSTNKNQLK QLTETYEEDR KNYSEVQIRC QRLALELADT KQLIQQGDYR QENYDKVKSE RDALEQEVIE LRRKHEILEA SHMIQTKERS ELSKEVVTLE QTVTLLQKDK EYLNRQNMEL SVRCAHEEDR LERLQAQLEE SKKAREEMYE KYVASRDHYK TEYENKLHDE LEQIRLKTNQ EIDQLRNASR EMYERENRNL REARNAVAE KERA VMAEKD ALEKHDQLLD RYRELQLSTE SKVTEFLHQS KLKSFESERV QLLQEETARN LTQCQLECEK YQKKLEVLTK EFYSLQASSE KRITELQAQN SEHQARLDIY EKLEKELDEI IMQTAEIENE DEAERVLSY GYGANVPTTA KRRLKQSVHL ARRLVQLEKQ NSLILKDLEH RKDQVTQLSQ ELDRANSLN QTQPPYRYLI ESVRQRDSKI DSLTESIAQL EKDVSNLNKE KSALLQTKNQ MALDLEQLLN HREELAAMKQ ILVKMHSKHS ENSLLTKTE PKHVTENQKS KTLNVPKEHE
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DNIFTPKPTL FTKKEAPEWS KKQKMKT

**Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.**

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Characteristics:

- Made in Germany - from design to production - by highly experienced protein experts.
- Human PIBF1 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to 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. Our 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 custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

In the unlikely event that the protein cannot be expressed or purified we do not charge anything (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 expression experiments or purification optimization).

When you order this made-to-order protein you will only pay upon receipt of the correctly folded protein. With no financial risk on your end you can rest assured that our experienced 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 280nm. The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer.

The concentration of the protein is calculated using its specific absorption coefficient. We use the ExPASy's protparam tool to determine the absorption coefficient of each protein.

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Purification:

Two step purification of proteins expressed in baculovirus infected SF9 insect cells:

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.

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Purity:

>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.

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Sterility:

0.22 µm filtered

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Endotoxin Level:

Protein is endotoxin free.

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## Product Details

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Grade: Crystallography grade

## Target Details

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Target: PIBF1

Alternative Name: PIBF1 ([PIBF1 Products](#))

Background: Isoform 1: Pericentriolar protein required to maintain mitotic spindle pole integrity (PubMed:21224392). Required for the centrosomal accumulation of PCM1 and the recruitment of centriolar satellite proteins such as BBS4. Via association with PCM1 may be involved in primary cilia formation (PubMed:23110211). Required for CEP63 centrosomal localization and its interaction with WDR62. Together with CEP63 promotes centriole duplication. Promotes the centrosomal localization of CDK2 (PubMed:26297806). {ECO:0000269|PubMed:21224392, ECO:0000269|PubMed:23110211, ECO:0000269|PubMed:26297806}, Isoform 4: The secreted form is a mediator of progesterone that by acting on the phospholipase A2 enzyme interferes with arachidonic acid metabolism, induces a Th2 biased immune response, and by controlling decidual natural killer cells (NK) activity exerts an anti-abortion effect (PubMed:14634107, PubMed:3863495, PubMed:12516630). Increases the production of Th2-type cytokines by signaling via the JAK/STAT pathway. Activates STAT6 and inhibits STAT4 phosphorylation. Signaling via a not identified receptor seems to implicate IL4R and a GPI-anchored protein (PubMed:16393965, PubMed:25218441). {ECO:0000269|PubMed:12516630, ECO:0000269|PubMed:14634107, ECO:0000269|PubMed:16393965, ECO:0000269|PubMed:25218441, ECO:0000269|PubMed:3863495, ECO:0000305|PubMed:11407300}.

Molecular Weight: 90.8 kDa Including tag.

UniProt: [Q8WXW3](#)

## Application Details

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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: 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.

## Application Details

Restrictions: For Research Use only

## 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