

Datasheet for ABIN3094493

**PAX3 and PAX7 Binding Protein 1 (PAXBP1) (AA 1-917)
protein (His tag)**[Go to Product page](#)

1 Image

Overview

| | |
|-------------------------------|--|
| Quantity: | 1 mg |
| Target: | PAX3 and PAX7 Binding Protein 1 (PAXBP1) |
| Protein Characteristics: | AA 1-917 |
| Origin: | Human |
| Source: | Insect Cells |
| Protein Type: | Recombinant |
| Purification tag / Conjugate: | His tag |
| Application: | ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS) |

Product Details

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| Sequence: | MFRKARRVNV RKRNDSEEEE RERDEEQEPP PLLPPPGTGE EAGPGGGDRA PGGESLLGPG PSPPSALTPG LGAEAGGGFP GGAEPGNGLK PRKRPRENKE VPRASLLSFQ DEEEENEVVF KVKKSSYSKK IVKLLKKEYK EDLEKSKIKT ELNSSAESEQ PLDKTGHVKD TNQEDGVIIS EHGEDEMDME SEKEEEKPKT GGAFSNALSS LNVLRPGEIP DAAFIHAARK KRQMARELGD FTPHDNEPGK GRLVREDEND ASDDEDDEK RRIVFSVKEK SQRQKIAEEI GIEGSDDDAL VTGEQDEELS RWEQEQIRKG INIPQVQASQ PAEVNMYQQN TYQTMPYGSS YGIPYSYTAY GSSDAKSQKT DNTVPFKTPS NEMTPVTIDL VKKQLKDRLD SMKELHKTNR QQHEKHLQSR VDSTRAIERL EGSSGGIGER YKFLQEMRGY VQDLLECFSE KVPLINELES AIHQLYKQRA SRLVQRRQDD IKDESSEFSS HSNKALMAPN LDSFGRDRAL YQEHAKRRIA EREARRTRRR QAREQTGKMA DHLEGLSSDD EETSTDITNF NLEKDRISKE SGKVFEDVLE SFYSIDCIKS QFEAWRSKYY TSYKDAYIGL CLPKLFNPLI RLQLLTWTPL EAKCRDFENM LWFESLLFYG CEEREQEKDD VDVALPTIV EKVILPKLTV IAENMWDPFS TTQTSRMVGI TLKLINGYPS |
|-----------|--|

VVNAENKNTQ VYLKALLLRM RRTLDDDVFM PLYPKNVLEN KNSGPYLFFQ RQFWSSVKLL
GNFLQWYGIF SNKTLQELSI DGLLNRYILM AFQNSEYGDD SIKKAQNVIN CFPKQWFMNL
KGERTISQLE NFCRYLVHLA DTIYRNSIGC SDVEKRNARE NIKQIVKLLA SVRALDHAMS
VASDHNVKEF KSLIEGK

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

Characteristics:

- Made in Germany - from design to production - by highly experienced protein experts.
- Human PAXBP1 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.

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.

Purity:

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

Product Details

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| Sterility: | 0.22 µm filtered |
| Endotoxin Level: | Protein is endotoxin free. |
| Grade: | Crystallography grade |

Target Details

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|-------------------|---|
| Target: | PAX3 and PAX7 Binding Protein 1 (PAXBP1) |
| Alternative Name: | PAXBP1 (PAXBP1 Products) |
| Background: | Adapter protein linking the transcription factors PAX3 and PAX7 to the histone methylation machinery and involved in myogenesis. Associates with a histone methyltransferase complex that specifically mediates dimethylation and trimethylation of 'Lys-4' of histone H3. Mediates the recruitment of that complex to the transcription factors PAX3 and PAX7 on chromatin to regulate the expression of genes involved in muscle progenitor cells proliferation including ID3 and CDC20 (By similarity). {ECO:0000250}. |
| Molecular Weight: | 105.8 kDa Including tag. |
| UniProt: | Q9Y5B6 |

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. |
| Restrictions: | For Research Use only |

Handling

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| 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 |

Handling

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