

Datasheet for ABIN3089087

## AP3D1 Protein (AA 2-1153) (His tag)



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### 1 Image

#### Overview

Quantity:	1 mg
Target:	AP3D1
Protein Characteristics:	AA 2-1153
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This AP3D1 protein is labelled with His tag.
Application:	Crystallization (Crys), ELISA, SDS-PAGE (SDS), Western Blotting (WB)

#### Product Details

Sequence:	<p>ALKMVKGSID RMFDKNLQDL VRGIRNHKED EAKYISQCID EIKQELKQDN IAVKANAVCK          LTYLQMLGYD ISWAAFNIIE VMSASKFTFK RIGYLAASQS FHEGTDVIML TTNQIRKDLN          SPSQYDTGVA LTGLSFCVTP DLARDLANDI MTLMSHTKPY IRKKAVLIMY KVFLKYPESL          RPAFPRLKEK LEDPDPGVQS AAVNVICELA RRNPKNYLSL APLFFKLMTS STNNWVLIKI          IKLFGALTPL EPRLGKKLIE PLTNLIHSTS AMSLLYECVN TVIAVLISLS SGMPNHSASI          QLCVQKLRIL IEDSDQNLKY LGLLAMSKIL KTHPKSVQSH KDILQLCDD KDESIRLRAL          DLLYGMVSKK NLMEIVKMKM THVDKAEGTT YRDELLTKII DICSQSNYQY ITNFEWYISI          LVELTRLEGT RHGHLIAAQM LDVAIRVKAI RKFAVSQMSA LLDSAHLAS STQRNGICEV          LYAAAWICGE FSEHLQEPHH TLEAMLRPRV TTLPGHIQAV YVQNVVKLYA SILQQKEQAG          EAEGAQAVTQ LMVDRLPQFV QSADLEVQER ASCILQLVKH IQKLQAKDVP VAEEVSAFSA          GELNPVAPKA QKKVPVPEGL DLDAWINEPL SDESEDERP RAVFHHEEQR RPKHRPSEAD          EEELARRREA RKQEQANPNF YIKSSPSPQK RYQDTPGVEH IPVVQIDLSV PLKVPGLPMS</p>
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DQYVKLEER RHRQKLEKDK RRKKRKEKEK KGKRRHSSLP TESDEDIAPA QQVDIVTEEM  
PENALPSEDED DKDPNDPYRA LDIDLKPLA DSEKLPQKH RNTETSKSPE KDVPMVEKKS  
KKPKKKEKKH KEKERDKEKK KEKEKKKSPK PPKKKHRKEK EERTKGKKKS KKQPPGSEEA  
AGEPVQNGAP EEEQLPPESS YSLLAENSIV KMTCDIRGSL QEDSQVTVAI VLENRSSIL  
KGMELSVLDS LNARMARPQG SSVHDGVPVP FQLPPGVSNE AQYVFTIQSI VMAQKCLKGTL  
SFIAKNDEGA THEKLDLRLH FSCSSYLITT PCYSDAFKL LESGDLSMSS IKVDGIRMSF  
QNLLAKICFH HHFSVVERVD SCASMYSRSI QGHHVCLLVK KGENSVSDG KCS DSTLLSN  
LLEEMKATLA KC

**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 AP3D1 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.

## Product Details

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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: Protein is endotoxin free.

Grade: Crystallography grade

## Target Details

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Target: AP3D1

Alternative Name: AP3D1 ([AP3D1 Products](#))

Background: Part of the AP-3 complex, an adaptor-related complex which is not clathrin-associated. The complex is associated with the Golgi region as well as more peripheral structures. It facilitates the budding of vesicles from the Golgi membrane and may be directly involved in trafficking to lysosomes. In concert with the BLOC-1 complex, AP-3 is required to target cargos into vesicles assembled at cell bodies for delivery into neurites and nerve terminals.

Molecular Weight: 131.0 kDa Including tag.

UniProt: [O14617](#)

## 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

## Handling

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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

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