

Datasheet for ABIN3093158  
**IQGAP2 Protein (AA 2-1575) (His tag)**



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1 Image

Overview

Quantity:	1 mg
Target:	IQGAP2
Protein Characteristics:	AA 2-1575
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This IQGAP2 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

Product Details

Sequence: PHEELPSLQR PRYGSIVDDE RLSAEEMDER RRQNIAYEYL CHLEEAKRWM EVCLVEELPP  
TTELEEGLRN GVYLAKLAKF FAPKMVSEKK IYDVEQTRYK KSGLHFRHTD NTVQWL RAME  
SIGLPKIFYP ETDDVYDRKN IPRMIYCIHA LSLYLFKLG I APQIQDLLGK VDFTEEEISN MRKELEKYGI  
QMPSFSKIGG ILANELSVDE AALHAAVIAI NEAVEKGIAE QTVVTLRNP N AVLTLVDDNL  
APEYQKELWD AKKKKEENAR LKNSCISEEE RDAYEELLTQ AEIQGNINKV NRQA AVDHIN  
AVIPEGDPEN TLLALKKPEA QLPAVYPFAA AMYQNELFNL QKQNTMNYLA HEELLI AVEM  
LSAVALLNQA LESNDLVSVQ NQLRSPAIGL NNLDKAYVER YANTLLSVKL EVLSQGQDNL  
SWNEIQNCID MVNAQIQEEN DRVVAVGYIN EAIDEGNPLR TLETLLLPTA NISDVDP AHA  
QHYQDVLYHA KSQKLG DSES VSKVLWLDEI QQAVDDANVD KDRAKQWVTL VVDVNQC LEG  
KKSSDILSVL KSSTSNANDI IPECADKY YD ALVKAKELKS ERVSSDGSWL KLN LHKKYDY  
YYNTDSKES S WTPESCLYK ESWLTGKEIE DIIEEVT VGY IRENIWSASE ELLLR FQATS  
SGPILREEFE ARKSFLHEQE ENVVKI QAFW KGYKQRKEYM HRRQT FIDNT DSIVKI QSWF

RMATARKSYL SRLQYFRDHN NEIVKIQSLL RANKARDDYK TLVGSNPPL TVIRKFVYLL  
DQSDLDFQEE LEVARLREEV VTKIRANQQL EKDLNLMEDIK IGLLVKNRIT LEDVISHSKK  
LNKKKGGEME ILNNTDNQGI KSLSKERRKT LETYQQLFY LQTNPLYLAK LIFQMPQNK  
TKFMDTVIFT LYNYNQRE EYLLKLFKT ALEEEIKSKV DQVQDIVTGN PTVIKMVVSF  
NRGARGQNTL RQLLAPVVKE IIDDKSLIIN TNPVEVYKAW VNQLETQTGE ASKLPYDVTT  
EQALTYPEVK NKLEASIENL RRVTDKVLNS IISLDDLDPY GLRYIAKVLK NSIHEKFPDA  
TEDELLKIVG NLLYYRYMNP AIVAPDGFDI IDMTAGGQIN SDQRRNLGSV AKVLQHAASN  
KLFEGENEHL SSMNNYLSET YQEFRKYFKE ACNVPEPEEK FNMDKYTDLV TVSKPVIYIS  
IEEIISTHSL LLEHQDAIAP EKNDLSELL GSLGEVPTVE SFLGEGAVDP NDPNKANTLS  
QLSKTEISLV LTSKYDIEDG EAIDSRSLMI KTKKLIIDVI RNQPGNTLTE ILETPTAAQ  
EVDHATDMVS RAMIDSRTPE EMKHSQSMIE DAQLPLEQKK RKIQRNLRTL EQTGHVSS  
KYQDILNEIA KDIRNQRIYR KLRKAELAKL QQTLNALNKK AAFYEEQINY YDTYIKTCLD  
NLKRKNTRRS IKLDGKGEPEK GAKRAKPVKY TAAKLHEKGV LLDIDDLQTN QFKNVTFDII  
ATEDVGIFDV RSKFLGVEME KVQLNIQDLL QMQYEGVAVM KMFDKVKVNV NLLIYLLNKK FYGK

**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 IQGAP2 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.

## Product Details

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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.

**Sterility:** 0.22 µm filtered

**Endotoxin Level:** Protein is endotoxin free.

**Grade:** Crystallography grade

## Target Details

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**Target:** IQGAP2

**Alternative Name:** IQGAP2 ([IQGAP2 Products](#))

**Background:** Binds to activated CDC42 and RAC1 but does not seem to stimulate their GTPase activity. Associates with calmodulin.

**Molecular Weight:** 181.4 kDa Including tag.

**UniProt:** [Q13576](#)

## 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
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