

Datasheet for ABIN7553986
GAPVD1 Protein (AA 1-1478) (His tag)



[Go to Product page](#)

Overview

Quantity:	1 mg
Target:	GAPVD1
Protein Characteristics:	AA 1-1478
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This GAPVD1 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat GAPVD1 Protein expressed in mammalian cells.
Sequence:	MVKLDIHTLA HHLKQERLYV NSEKQLIQRL NADVLTAEK LYRTAWIAKQ QRINLDRLLI TSAEASPAEC CQHAKILED T QFVDGYKQLG FQETAYGEFL SRLRENPRLI ASSLVAGEKL NQENTQSVIY TVFTSLYGNC IMQEDES YLL QVRLRYLIEFE LKESDNPRRL LRRGTCAFSI LFKLFSEGLF SAKLFLTATL HEPIMQLLVE DEDHLETDPN KLIERFSPSQ QEKLFGEKGS DRFRQKVQEM VESNEAKLVA LVNKFIFYLK QNTYCFPHSL RWIVSQMYKT LSCVDRLEVG EVRAMCTDLL LACFICPAVV NPEQYGIISD APINEVARFN LMQVGRLLQ LAMTGSEEGD PRTKSSLGKF DKSCVAAFLD VVIGGRAVET PPLSSVNLE GLSRTVVYIT YSQLITLVNF MKSVMMSGDQL REDRMALDNL LANLPPAKPG KSSSLEMPY NTPQLSPATT PANKKNRLPI ATRSRRTNM LMDLHMDHEG SSQETIQEVQ PEEVLVISLG TGPQLTPGMM SENEVLNMQL SDGGQGDVPV DENKLHGKPD KTLRFSLCSD NLEGISEGPS NRSNSVSSLD LEGESVSELG AGPSGSNGVE ALQLEHEQA TTQDNLDDKL RKFEIRDMMG LTDDRDISET VSETWSTDVL

GSDFDPNIDE DRLQEIAGAA AENMLGSLLC LPGSGSVLLD PCTGSTISET TSEAWSVEVL
PSDSEAPDLK QEERLQELES CSGLGSTSDD TDVREVSSRP STPGLSVVSG ISATSEDIPN
KIEDLRSECS SDFGGKDSVT SPDMDEITHG AHQLTSPPSQ SESLLAMFDP LSSHGASAV
VRPKVHYARP SHPPDPPIIL EGAVGGNEAR LPNFGSHVLT PAEMEAFAKQR HSYPERLVRS
RSSDIVSSVR RPMSPSWNR RPGNEERELP PAAAIGATSL VAAPHSSSSS PSKSSRGET
EERKSDSDEK SDRNRPWWRK RFVSAMPKAP IPFRKKEKQE KDKDDLGPDR FSTLTDDPSP
RLSAQAQVAE DILDKYRNAI KRTSPSDGAM ANYESTGDNH DRDLSSKLLY HSDKEVMGDG
ESAHDSRDE ALQNISADDL PDSASQAAHP QDSAFSYRDA KKKLRLALCS ADSVAFPVLT
HSTRNGLPDH TDPEDNEIVC FLKVQIAEAI NLQDKNLMAQ LQETMRCVCR FDNRTCRKLL
ASIAEDYRKR APYIAYLTRC RQGLQTTQAH LERLLQRVLR DKEVANRYFT TVCVRLLES
KEKKIREFIQ DFQKLAADD KTAQVEDFLQ FLYGAMAQDV IWQNASEEQL QDAQLAIRS
VMNRIFKLAF YPNQDGDILR DQVLHEHIQR LSKVV TANHR ALQIPEVYLR EAPWPSAQSE
IRTISAYKTP RDKVQCILRM CSTIMNLLSL ANEDSVPGAD DFVPVLVFLV IKANPPCLLS
TVQYISSFYA SCLSGEESYW WMQFTA AVEF IKTIDDRK **Sequence without tag. The proposed
Purification-Tag is based on experiences with the expression system, a different complexity
of the protein could make another tag necessary. In case you have a special request, please
contact us.**

Characteristics:

Key Benefits:

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- 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 try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

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.

Purity: > 90 % as determined by Bis-Tris Page, Western Blot

Grade: custom-made

Target Details

Target:	GAPVD1
Alternative Name:	GAPVD1 (GAPVD1 Products)
Background:	<p>GTPase-activating protein and VPS9 domain-containing protein 1 (GAPex-5) (Rab5-activating protein 6),FUNCTION: Acts both as a GTPase-activating protein (GAP) and a guanine nucleotide exchange factor (GEF), and participates in various processes such as endocytosis, insulin receptor internalization or LC2A4/GLUT4 trafficking. Acts as a GEF for the Ras-related protein RAB31 by exchanging bound GDP for free GTP, leading to regulate LC2A4/GLUT4 trafficking. In the absence of insulin, it maintains RAB31 in an active state and promotes a futile cycle between LC2A4/GLUT4 storage vesicles and early endosomes, retaining LC2A4/GLUT4 inside the cells. Upon insulin stimulation, it is translocated to the plasma membrane, releasing LC2A4/GLUT4 from intracellular storage vesicles. Also involved in EGFR trafficking and degradation, possibly by promoting EGFR ubiquitination and subsequent degradation by the proteasome. Has GEF activity for Rab5 and GAP activity for Ras. {ECO:0000269 PubMed:16410077}.</p>
Molecular Weight:	165.0 kDa
UniProt:	Q14C86

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.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition 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:	12 months