Datasheet for ABIN7551910

AGAP2 Protein (AA 1-1192) (His tag)

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Overview

Quantity:	1 mg
Target:	AGAP2
Protein Characteristics:	AA 1-1192
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This AGAP2 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant AGAP2 Protein expressed in mammalian cells.
Sequence:	MSRGAGALQR RTTTYLISLT LVKLESVPPP PPSPSAAAVG APGARGSEPR DPGSPRGAEE PGKKRHERLF HRQDALWIST SSAGAGGAEP PALSPAPASP ARPVSPAPGR RLSLWAAPPG PPLSGGLSPD SKPGGAPSSS RRPLLSSPSW GGPEPEGRTG GGVPGSSSPH PGTGSRRLKV APPPPAPKPC KTVTTSGAKA GGGKGAGSRL SWPESEGKPR VKGSKSSAGT GASVSAAATA AAAGGGGSTA STSGGVGAGA GARGKLSPRK GKSKTLDNSD LHPGPPAGSP PPLTLPPTPS PATAVTAASA QPPGPAPPIT LEPPAPGLKR GREGGRASTR DRKMLKFISG IFTKSTGGPP GSGPLPGPPS LSSGSGSREL LGAELRASPK AVINSQEWTL SRSIPELRLG VLGDARSGKS SLIHRFLTGS YQVLEKTESE QYKKEMLVDG QTHLVLIREE AGAPDAKFSG WADAVIFVFS LEDENSFQAV SRLHGQLSSL RGEGRGGLAL ALVGTQDRIS ASSPRVVGDA RARALCADMK RCSYYETCAT YGLNVDRVFQ EVAQKVVTLR KQQQLLAACK SLPSSPSHSA ASTPVAGQAS NGGHTSDYSS SLPSSPNVGH RELRAEAAAV AGLSTPGSLH RAAKRRTSLF ANRRGSDSEK RSLDSRGETT GSGRAIPIKQ SFLLKRSGNS LNKEWKKKYV TLSSNGFLLY HPSINDYIHS

Product Details

	THGKEMDLLR TTVKVPGKRP PRAISAFGPS ASINGLVKDM STVQMGEGLE ATTPMPSPSP SPSSLQPPPD QTSKHLLKPD RNLARALSTD CTPSGDLSPL SREPPPSPMV KKQRRKKLTT PSKTEGSAGQ AEAKRKMWKL KSFGSLRNIY KAEENFEFLI VSSTGQTWHF EAASFEERDA WVQAIESQIL ASLQCCESSK VKLRTDSQSE AVAIQAIRNA KGNSICVDCG APNPTWASLN LGALICIECS GIHRNLGTHL SRVRSLDLDD WPRELTLVLT AIGNDTANRV WESDTRGRAK PSRDSSREER ESWIRAKYEQ LLFLAPLSTS EEPLGRQLWA AVQAQDVATV LLLLAHARHG PLDTSVEDPQ LRSPLHLAAE LAHVVITQLL LWYGADVAAR DAQGRTALFY ARQAGSQLCA DILLQHGCPG EGGSAATTPS AATTPSITAT PSPRRRSSAA SVGRADAPVA LV **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.**
Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.
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, anti-tag ELISA, Western Blot and analytical SEC (HPLC)
Grade:	custom-made

Target Details

Target:	AGAP2
Alternative Name:	AGAP2 (AGAP2 Products)

Target Details

Background:	Arf-GAP with GTPase, ANK repeat and PH domain-containing protein 2 (AGAP-2) (Centaurin-gamma-1) (Cnt-g1) (GTP-binding and GTPase-activating protein 2) (GGAP2) (Phosphatidylinositol 3-kinase enhancer) (PIKE),FUNCTION: GTPase-activating protein (GAP) for ARF1 and ARF5, which also shows strong GTPase activity. Isoform 1 participates in the prevention of neuronal apoptosis by enhancing PI3 kinase activity. It aids the coupling of metabotropic glutamate receptor 1 (GRM1) to cytoplasmic PI3 kinase by interacting with Homer scaffolding proteins, and also seems to mediate anti-apoptotic effects of NGF by activating nuclear PI3 kinase. Isoform 2 does not stimulate PI3 kinase but may protect cells from apoptosis by stimulating Akt. It also regulates the adapter protein 1 (AP-1)-dependent trafficking of proteins in the endosomal system. It seems to be oncogenic. It is overexpressed in cancer cells, prevents apoptosis and promotes cancer cell invasion. {ECO:0000269|PubMed:12640130, ECO:0000269|PubMed:14761976, ECO:0000269|PubMed:15118108, ECO:0000269|PubMed:16079295}.
Molecular Weight:	124.7 kDa
UniProt:	Q99490

Application Details

Application Notes:	We expect the protein to work for functional studies. 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