antibodies

Datasheet for ABIN3134684 FAP Protein (AA 24-761) (rho-1D4 tag)





Overview

Quantity:	1 mg
Target:	FAP
Protein Characteristics:	AA 24-761
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This FAP protein is labelled with rho-1D4 tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

Product Details

Sequence:	IVLRPSRVYK PEGNTKRALT LKDILNGTFS YKTYFPNWIS EQEYLHQSED DNIVFYNIET
	RESYIILSNS TMKSVNATDY GLSPDRQFVY LESDYSKLWR YSYTATYYIY DLQNGEFVRG
	YELPRPIQYL CWSPVGSKLA YVYQNNIYLK QRPGDPPFQI TYTGRENRIF NGIPDWVYEE
	EMLATKYALW WSPDGKFLAY VEFNDSDIPI IAYSYYGDGQ YPRTINIPYP KAGAKNPVVR
	VFIVDTTYPH HVGPMEVPVP EMIASSDYYF SWLTWVSSER VCLQWLKRVQ NVSVLSICDF
	REDWHAWECP KNQEHVEESR TGWAGGFFVS TPAFSQDATS YYKIFSDKDG YKHIHYIKDT
	VENAIQITSG KWEAIYIFRV TQDSLFYSSN EFEGYPGRRN IYRISIGNSP PSKKCVTCHL
	RKERCQYYTA SFSYKAKYYA LVCYGPGLPI STLHDGRTDQ EIQVLEENKE LENSLRNIQL
	PKVEIKKLKD GGLTFWYKMI LPPQFDRSKK YPLLIQVYGG PCSQSVKSVF AVNWITYLAS
	KEGIVIALVD GRGTAFQGDK FLHAVYRKLG VYEVEDQLTA VRKFIEMGFI DEERIAIWGW
	SYGGYVSSLA LASGTGLFKC GIAVAPVSSW EYYASIYSER FMGLPTKDDN LEHYKNSTVM
	ARAEYFRNVD YLLIHGTADD NVHFQNSAQI AKALVNAQVD FQAMWYSDQN HGISSGRSQN

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	HLYTHMTHFL KQCFSLSD
	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. Mouse Fap 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 receival 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:	Three step purification of membrane proteins expressed in baculovirus infected SF9 insect cells:
	 Membrane proteins are fractioned by ultracentrifugation and subsequently solubilized with different detergents (detergent screen). Samples are analyzed by Western blot. The best performing detergent is used for solubilization and the proteins are purified via their rho1D4 tag via two rho1D4 antibody columns: one DTT resistant, the other one not. Eluate fractions are analyzed by Western blot.
	 Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatograph. 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

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Product Details

Endotoxin Level:	Protein is endotoxin-free.
Grade:	Crystallography grade

Target Details

Target:	FAP
Alternative Name:	Fap (FAP Products)
Background:	Cell surface glycoprotein serine protease that participates in extracellular matrix degradation
	and involved in many cellular processes including tissue remodeling, fibrosis, wound healing,
	inflammation and tumor growth. Both plasma membrane and soluble forms exhibit post-
	proline cleaving endopeptidase activity, with a marked preference for Ala/Ser-Gly-Pro-
	Ser/Asn/Ala consensus sequences, on substrate such as alpha-2-antiplasmin SERPINF2 and
	SPRY2. Degrade also gelatin, heat-denatured type I collagen, but not native collagen type I and
	IV, vibronectin, tenascin, laminin, fibronectin, fibrin or casein. Have also dipeptidyl peptidase
	activity, exhibiting the ability to hydrolyze the prolyl bond two residues from the N-terminus of
	synthetic dipeptide substrates provided that the penultimate residue is proline, with a
	preference for Ala-Pro, Ile-Pro, Gly-Pro, Arg-Pro and Pro-Pro. Natural neuropeptide hormones fo
	dipeptidyl peptidase are the neuropeptide Y (NPY), peptide YY (PYY), substance P (TAC1) and
	brain natriuretic peptide 32 (NPPB). The plasma membrane form, in association with either
	DPP4, PLAUR or integrins, is involved in the pericellular proteolysis of the extracellular matrix
	(ECM), and hence promotes cell adhesion, migration and invasion through the ECM. Plays a rol
	in tissue remodeling during development and wound healing. Participates in the cell
	invasiveness towards the ECM in malignant melanoma cancers. Enhances tumor growth
	progression by increasing angiogenesis, collagen fiber degradation and apoptosis and by
	reducing antitumor response of the immune system. Promotes glioma cell invasion through th
	brain parenchyma by degrading the proteoglycan brevican. Acts as a tumor suppressor in
	melanocytic cells through regulation of cell proliferation and survival in a serine protease
	activity-independent manner. {ECO:0000269 PubMed:10629066,
	ECO:0000269 PubMed:11330865, ECO:0000269 PubMed:15133496,
	ECO:0000269 PubMed:21051638, ECO:0000269 PubMed:23710635,
	ECO:0000269 PubMed:24371721, ECO:0000269 PubMed:9688278}.
Molecular Weight:	86.7 kDa Including tag.
UniProt:	P97321
Pathways:	Tube Formation

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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 gurantee though.
Comment:	Protein has not been tested for activity yet. 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	

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

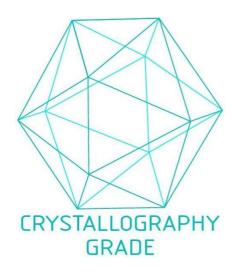


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process

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