antibodies

Datasheet for ABIN3134832 HSPG2 Protein (AA 3008-3707) (His tag)





Overview

Quantity:	1 mg
Target:	HSPG2
Protein Characteristics:	AA 3008-3707
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This HSPG2 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

Product Details

Sequence:	EIKITFRPDS ADGMLLYNGQ KRSPTNLANR QPDFISFGLV GGRPEFRFDA GSGMATIRHP
	TPLALGQFHT VTLLRSLTQG SLIVGNLAPV NGTSQGKFQG LDLNEELYLG GYPDYGAIPK
	AGLSSGFVGC VRELRIQGEE IVFHDVNLTT HGISHCPTCQ DRPCQNGGQC QDSESSSYTC
	VCPAGFTAAA VNIRKPCTAT PSLWADATCV NRPDGRGYTC RCHLGRSGVR CEEGVTVTTP
	SMSGAGSYLA LPALTNTHHE LRLDVEFKPL EPNGILLFSG GKSGPVEDFV SLAMVGGHLE
	FRYELGSGLA VLRSHEPLAL GRWHRVSAER LNKDGSLRVD GGRPVLRSSP GKSQGLNLHT
	LLYLGGVEPS VQLSPATNMS AHFHGCVGEV SVNGKRLDLT YSFLGSQGVG QCYDSSPCER
	QPCRNGATCM PAGEYEFQCL CQDGFKGDLC EHEENPCQLH EPCLNGGTCR GARCLCLPGF
	SGPRCQQGAG YGVVESDWHP EGSGGNDAPG QYGAYFYDNG FLGLPGNSFS RSLPEVPETI
	EFEVRTSTAD GLLLWQGVVR EASRSKDFIS LGLQDGHLVF SYQLGSGEAR LVSGDPINDG
	EWHRITALRE GQRGSIQVDG EDLVTGRSPG PNVAVNTKDI IYIGGAPDVA TLTRGKFSSG
	ITGCIKNLVL HTARPGAPPP QPLDLQHRAQ AGANTRPCPS

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	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 Hspg2 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:	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.	
	 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	

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Target Details		
Target:	HSPG2	
Alternative Name:	Hspg2 (HSPG2 Products)	
Background:	Integral component of basement membranes. Component of the glomerular basement membrane (GBM), responsible for the fixed negative electrostatic membrane charge, and which provides a barrier which is both size- and charge-selective. It serves as an attachment substrate for cells. Plays essential roles in vascularization. Critical for normal heart development and for regulating the vascular response to injury. Also required for avascular cartilage development (By similarity). (ECO:0000250)., Endorepellin in an anti-angiogenic and anti-tumor peptide that inhibits endothelial cell migration, collagen-induced endothelial tube morphogenesis and blood vessel growth in the chorioallantoic membrane. Blocks endothelial cell adhesion to fibronectin and type I collagen. Anti-tumor agent in neovascularization. Interaction with its ligand, integrin alpha2/beta1, is required for the anti-angiogenic properties. Evokes a reduction in phosphorylation of receptor tyrosine kinases via alpha2/beta1 integrin-mediated activation of the tyrosine phosphatase, PTPN6 (By similarity). {ECO:000250}., The LG3 peptide has anti- angiogenic properties that require binding of calcium ions for full activity. {ECO:000250}.	
Molecular Weight:	75.7 kDa Including tag.	
UniProt:	Q05793	
Pathways:	Glycosaminoglycan Metabolic Process, Lipid Metabolism	
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.	

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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