antibodies

Datasheet for ABIN3118432 DLL4 Protein (AA 27-685) (rho-1D4 tag)





Overview

Quantity:	1 mg
Target:	DLL4
Protein Characteristics:	AA 27-685
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This DLL4 protein is labelled with rho-1D4 tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA, Crystallization (Crys)

Product Details

	Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a
	MPGKFPHSDK SLGEKAPLRL HSEKPECRIS AICSPRDSMY QSVCLISEER NECVIATEV
	AMNNLSDFQK DNLIPAAQLK NTNQKKELEV DCGLDKSNCG KQQNHTLDYN LAPGPLGRGT
	NCPYGFVGSR CEFPVGLPPS FPWVAVSLGV GLAVLLVLLG MVAVAVRQLR LRRPDDGSRE
	NPCAHGGTCH DLENGLMCTC PAGFSGRRCE VRTSIDACAS SPCFNRATCY TDLSTDTFVC
	ACECPPNFTG SNCEKKVDRC TSNPCANGGQ CLNRGPSRMC RCRPGFTGTY CELHVSDCAR
	ECDSNPCRNG GSCKDQEDGY HCLCPPGYYG LHCEHSTLSC ADSPCFNGGS CRERNQGANY
	PWQCTCDEGW GGLFCDQDLN YCTHHSPCKN GATCSNSGQR SYTCTCRPGY TGVDCELELS
	SCLPGWTGEY CQQPICLSGC HEQNGYCSKP AECLCRPGWQ GRLCNECIPH NGCRHGTCST
	GSLAVGQNWL LDEQTSTLTR LRYSYRVICS DNYYGDNCSR LCKKRNDHFG HYVCQPDGNL
	NSFAVRDDSS GGGRNPLQLP FNFTWPGTFS LIIEAWHAPG DDLRPEALPP DALISKIAIQ
Sequence:	SGVFQLQLQE FINERGVLAS GRPCEPGCRT FFRVCLKHFQ AVVSPGPCTF GTVSTPVLGT

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Product Details

	special request, please contact us.
Characteristics:	 Made in Germany - from design to production - by highly experienced protein experts. Human DLL4 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: 1. Membrane proteins are fractioned by ultracentrifugation and subsequently solubilized with different detergents (detergent screen). Samples are analyzed by Western blot. 2. 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. 3. 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
Endotoxin Level:	Protein is endotoxin-free.

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Product Details

Grade:

Crystallography grade

Target Details

Target:	DLL4
Alternative Name:	DLL4 (DLL4 Products)
Background:	Involved in the Notch signaling pathway as Notch ligand (PubMed:11134954). Activates
	NOTCH1 and NOTCH4. Involved in angiogenesis, negatively regulates endothelial cell
	proliferation and migration and angiogenic sprouting (PubMed:20616313). Essential for retinal
	progenitor proliferation. Required for suppressing rod fates in late retinal progenitors as well as
	for proper generation of other retinal cell types (By similarity). During spinal cord neurogenesis,
	inhibits V2a interneuron fate (PubMed:17728344). {ECO:0000250 UniProtKB:Q9JI71,
	EC0:0000269 PubMed:11134954, EC0:0000269 PubMed:17728344,
	EC0:0000269 PubMed:20616313}.
Molecular Weight:	73.1 kDa Including tag.
UniProt:	Q9NR61
Pathways:	Notch Signaling
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:	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.

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Handling

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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