

Datasheet for ABIN3117948

SEMA4C Protein (AA 21-833) (rho-1D4 tag)



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Overview

Quantity:	1 mg
Target:	SEMA4C
Protein Characteristics:	AA 21-833
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SEMA4C protein is labelled with rho-1D4 tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS), Crystallization (Crys)

Product Details

Sequence:	AEVWWNLVPR KTVSSGELAT VVRRFSQTGI QDFLTLTLTE PTGLLYVGAR EALFAFSMEA LELQGAISWE APVEKKTECI QKGKNNQTEC FNFIRFLQPY NASHLYVCGT YAFQPKCTYV NMLTFTLEHG EFEDGKGKCP YDPAKGHAGL LVDGELYSAT LNNFLGTEPI ILRNMGP HHS MKTEYLAFWL NEPHFVGSAY VPESVGSFTG DDDKVYFFFR ERAVESDCYA EQVVARVARV CKGDMGGART LQRKWTTFLK ARLACSAPNW QLYFNQLQAM HTLQDTSWHN TTFFGVFQAQ WGDMYLSAIC EYQLEEIQRV FEGPYKEYHE EAQKWDYTD PVPSRPFGSC INNWHRRHGY TSSLELPDNI LNFVKKHPLM EEQVGPRWSR PLLVKKGTNF THLVADRVTG LDGATYTVLF IGTGDGWLLK AVSLGPWVHL IEELQLFDQE PMRSLVLSQS KKLLFAGSRS QLVQLPVADC MKYRSCADCV LARDPYCAWS VNTSRCVAVG GHSGSLLIQH VMTSDTSGIC NLRGSKKVRP TPKNITVVAG TDLVLPCHLS SNLAHARWTF GGRDLP AEQP GSFLYDARLQ ALVVM AAQPR HAGAYHCFSE EQGARLAAEG YLVAVVAGPS VTLEARAPLE NLGLVWLAVV ALGAVCLVLL LLVLSLRRRL REELEKGAKA TERTLVYPLE LPKEPTSPPF RPCPEPDEKL WDPVGYYYSD
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GSCLKIVPGHA RCQPGGGPPS PPPGIPGQPL PSPTRLHLGG GRNSNANGYV RLQLGGEDRG
GLGHPLPELA DELRRKLQQR QPLPDSNPEE SSV

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.
- Human SEMA4C 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 receipt 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 fractionated 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 chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.

Purity:

>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.

Product Details

Sterility:	0.22 µm filtered
Endotoxin Level:	Protein is endotoxin-free.
Grade:	Crystallography grade

Target Details

Target:	SEMA4C
Alternative Name:	SEMA4C (SEMA4C Products)
Background:	<p>Cell surface receptor for PLXNB2 that plays an important role in cell-cell signaling. PLXNB2 binding promotes downstream activation of RHOA and phosphorylation of ERBB2 at 'Tyr-1248'. Required for normal brain development, axon guidance and cell migration (By similarity). Probable signaling receptor which may play a role in myogenic differentiation through activation of the stress-activated MAPK cascade. {ECO:0000250, ECO:0000269 PubMed:17498836}.</p>
Molecular Weight:	91.6 kDa Including tag.
UniProt:	Q9C0C4
Pathways:	Tube Formation

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.
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.

Handling

Storage:	-80 °C
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Storage Comment:	Store at -80°C.
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Expiry Date:	Unlimited (if stored properly)
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