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## Datasheet for ABIN3134495 EPH Receptor B3 Protein (EPHB3) (AA 30-993) (rho-1D4 tag)



## Overview

Quantity:	1 mg
Target:	EPH Receptor B3 (EPHB3)
Protein Characteristics:	AA 30-993
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This EPH Receptor B3 protein is labelled with rho-1D4 tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

## Product Details

Sequence:	LEETLMDTKW VTSELAWTSH PESGWEEVSG YDEAMNPIRT YQVCNVRESS QNNWLRTGFI
	WRREVQRVYV ELKFTVRDCN SIPNIPGSCK ETFNLFYYEA DSDVASASSP FWMENPYVKV
	DTIAPDESFS RLDAGRVNTK VRSFGPLSKA GFYLAFQDQG ACMSLISVRA FYKKCASTTA
	GFALFPETLT GAEPTSLVIA PGTCIANAVE VSVPLKLYCN GDGEWMVPVG ACTCATGHEP
	AAKESQCRAC PPGSYKAKQG EGPCLPCPPN SRTTSPAASI CTCHNNFYRA DSDSADSACT
	TVPSPPRGVI SNVNETSLIL EWSEPRDLGG RDDLLYNVIC KKCRGSSGAG GPATCSRCDD
	NVEFVPRQLG LTERRVHISH LLAHTRYTFE VQAVNGVSGK SPLPPRYAAV NITTNQAAPS
	EVPTLHLHSS SGSSLTLSWA PPERPNGVIL DYEMKYFEKS KGIASTVTSQ KNSVQLDGLQ
	PDARYVVQVR ARTVAGYGQY SHPAEFETTS ERGSGAQQLQ EQLPLIVGST VAGFVFMVVV
	VVIALVCLRK QRHGPDAEYT EKLQQYIAPG MKVYIDPFTY EDPNEAVREF AKEIDVSCVK
	IEEVIGAGEF GEVCRGRLKL PGRREVFVAI KTLKVGYTER QRRDFLSEAS IMGQFDHPNI
	IRLEGVVTKS RPVMILTEFM ENCALDSFLR LNDGQFTVIQ LVGMLRGIAA GMKYLSEMNY

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	VHRDLAARNI LVNSNLVCKV SDFGLSRFLE DDPSDPTYTS SLGGKIPIRW TAPEAIAYRK
	FTSASDVWSY GIVMWEVMSY GERPYWDMSN QDVINAVEQD YRLPPPMDCP TALHQLMLDC
	WVRDRNLRPK FSQIVNTLDK LIRNAASLKV TASAPSGMSQ PLLDRTVPDY TTFTTVGDWL DAIKMGRYKE SFVGAGFASF DLVAQMTAED LLRIGVTLAG HQKKILCSIQ DMRLQMNQTL PVQV
	Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.
Characteristics:	<ul> <li>Made in Germany - from design to production - by highly experienced protein experts.</li> <li>Mouse Ephb3 Protein (raised in Insect Cells) purified by multi-step, protein-specific process</li> </ul>
	<ul><li>to ensure crystallization grade.</li><li>State-of-the-art algorithm used for plasmid design (Gene synthesis).</li></ul>
	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.
	<ol> <li>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</li> </ol>

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## Product Details

	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
Target Details	
Target:	EPH Receptor B3 (EPHB3)
Alternative Name:	Ephb3 (EPHB3 Products)
Background:	Receptor tyrosine kinase which binds promiscuously transmembrane ephrin-B family ligands
	residing on adjacent cells, leading to contact-dependent bidirectional signaling into neighboring
	cells. The signaling pathway downstream of the receptor is referred to as forward signaling
	while the signaling pathway downstream of the ephrin ligand is referred to as reverse signaling
	Generally has an overlapping and redundant function with EPHB2. Like EPHB2, functions in
	axon guidance during development regulating for instance the neurons forming the corpus
	callosum and the anterior commissure, 2 major interhemispheric connections between the
	temporal lobes of the cerebral cortex. In addition to its role in axon guidance plays also an
	important redundant role with other ephrin-B receptors in development and maturation of
	dendritic spines and the formation of excitatory synapses. Controls other aspects of
	development through regulation of cell migration and positioning. This includes angiogenesis,
	palate development and thymic epithelium development for instance. Forward and reverse
	signaling through the EFNB2/EPHB3 complex also regulate migration and adhesion of cells
	that tubularize the urethra and septate the cloaca. Finally, plays an important role in intestinal
	epithelium differentiation segregating progenitor from differentiated cells in the crypt.
	{EC0:0000269 PubMed:12408869, EC0:0000269 PubMed:14691139,
	ECO:0000269 PubMed:15223334, ECO:0000269 PubMed:19598115,
	EC0:0000269 PubMed:8947026, EC0:0000269 PubMed:9990854}.
Molecular Weight:	107.9 kDa Including tag.
UniProt:	P54754
Pathways:	RTK Signaling

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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: Handling	For Research Use only
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)