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Datasheet for ABIN3113366
AXL Protein (AA 26-894) (rho-1D4 tag)

Overview

Quantity:	1 mg
Target:	AXL
Protein Characteristics:	AA 26-894
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This AXL protein is labelled with rho-1D4 tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

Product Details

Sequence: APRGTQAEES PFGNPGNIT GARGLTGTLR CQLQVQGEPP EVHWLRDGGI LELADSTQTQ
VPLGEDEQDD WIVVSQLRIT SLQLSDTGQY QCLVFLGHQT FVSQPGYVGL EGLPYFLEEP
EDRTVAANTP FNLSCQAQGP PEPVDLLWLQ DAVPLATAPG HGPQRSLHVP GLNKTSSFSC
EAHNAKGVTT SRTATITVLP QQPRNLHLVS RQPTELEVAW TPGLSGIYPL THCTLQAVLS
NDGMGIQAGE PDPPEEPLTS QASVPPHQLR LGSLHPHTPY HIRVACTSSQ GPSSWTHWLP
VETPEGVPLG PPENISATRN GSQAFVHWQE PRAPLQGTLL GYRLAYQQGD TPEVLMDIGL
RQEVTLLELQG DGSVSNLTVL VAAAYTAAGDG PWSLPVPLEA WRPGQAQPVH QLVKEPSTPA
FSWPWWYVLL GAVWAAACVL ILALFLVHRR KKETRYGEVF EPTVERGELV VRVYRVRKSYS
RRTTEATLNS LGISEELKEK LRDVMVDRHK VALGKTLGEG EFGAVMEGQL NQDDSILKVA
VKTMKIAICT RSELEDFLSE AVCMKEFDHP NVMRLIGVCF QGSERESFPA PVVILPFMKH
GDLHSFLLYS RLGDPVYLP TQMLVKFMAD IASGMEYLST KRFIHRDLAA RNCMLNENMS
VCVADFGLSK KIYNGDYRQ GRIAKMPVKW IAIESLADRV YTSKSDVWSF GVTMWEIATR

GQTPYPGVEN SEIYDYLRQG NRLKQPADCL DGLYALMSRC WELNPQDRPS FTELREDLEN
TLKALPPAQE PDEILYVNMD EGGGYPEPPG AAGGADPPTQ PDPKDCSCSL TAAEVHPAGR
YVLCPSTTPS PAQPADRGSP AAPGQEDGA

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 AXL 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 chromatograph. Eluate fractions are analyzed by SDS-PAGE and Western blot.

Product Details

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:	AXL
Alternative Name:	AXL (AXL Products)
Background:	<p>Receptor tyrosine kinase that transduces signals from the extracellular matrix into the cytoplasm by binding growth factor GAS6 and which is thus regulating many physiological processes including cell survival, cell proliferation, migration and differentiation. Ligand binding at the cell surface induces dimerization and autophosphorylation of AXL. Following activation by ligand, AXL binds and induces tyrosine phosphorylation of PI3-kinase subunits PIK3R1, PIK3R2 and PIK3R3, but also GRB2, PLCG1, LCK and PTPN11. Other downstream substrate candidates for AXL are CBL, NCK2, SOCS1 and TNS2. Recruitment of GRB2 and phosphatidylinositol 3 kinase regulatory subunits by AXL leads to the downstream activation of the AKT kinase. GAS6/AXL signaling plays a role in various processes such as endothelial cell survival during acidification by preventing apoptosis, optimal cytokine signaling during human natural killer cell development, hepatic regeneration, gonadotropin-releasing hormone neuron survival and migration, platelet activation, or regulation of thrombotic responses. Plays also an important role in inhibition of Toll-like receptors (TLRs)-mediated innate immune response. {ECO:0000269 PubMed:10403904, ECO:0000269 PubMed:11484958, ECO:0000269 PubMed:12364394, ECO:0000269 PubMed:12490074, ECO:0000269 PubMed:15507525, ECO:0000269 PubMed:15733062, ECO:0000269 PubMed:1656220, ECO:0000269 PubMed:18840707}., (Microbial infection) Acts as a receptor for lassa virus and lymphocytic choriomeningitis virus, possibly through GAS6 binding to phosphatidyl-serine at the surface of virion envelope (PubMed:22156524, PubMed:22673088, PubMed:25277499, PubMed:21501828). Acts as a receptor for ebolavirus, possibly through GAS6 binding to phosphatidyl-serine at the surface of virion envelope (PubMed:17005688). {ECO:0000269 PubMed:17005688, ECO:0000269 PubMed:21501828, ECO:0000269 PubMed:22156524, ECO:0000269 PubMed:22673088, ECO:0000269 PubMed:25277499}.</p>
Molecular Weight:	96.6 kDa Including tag.

Target Details

UniProt: [P30530](#)

Pathways: [RTK Signaling, Cellular Response to Molecule of Bacterial Origin](#)

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.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: Unlimited (if stored properly)