

Datasheet for ABIN3096241

AXL Protein (AA 473-894) (His tag)

3 Images

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Overview

Quantity:	1 mg
Target:	AXL
Protein Characteristics:	AA 473-894
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This AXL protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

Product Details

Sequence:	MHHHHHHHRR KKETRYGEVF EPTVERGELV VRYRVRKSYS RRTTEATLNSL GISEELKEKL RDVMVDRHKV ALGKTLGEGE FGAVMEGQLN QDDSILKVAV KTMKIAICTR SELEDLSEA VCMKEFDHPN VMRLIGVCFQ GSERESFPAP VVILPFMKHG DLHSFLLYSR LGDQPVYLPT QMLVKFMADI ASGMEYLSTK RFIHRDLAAR NCMLNENMSV CVADFGLSKK IYNGDYRQG RIAKMPVKWI AIESLADRVY TSKSDVWSFG VTMWEIATRG QTPYPGVENS EIYDYLRQGN RLKQPADCLD GLYALMSRCW ELNPQDRPSF TELREDLENT LKALPPAQEP DEILYVNMDE GGGYPEPPGA AGGADPPTQP DPKDSCSCLT AAEVHPAGRY VLCPSTTPSP AQPADRGSPA APGQEDGA
Characteristics:	<p>The concentration of our recombinant proteins is measured using the absorbance at 280nm.</p> <p>The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer.</p> <p>The concentration of the protein is calculated using its specific absorption coefficient. We use</p>

Product Details

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. 2. 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

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.</p> <p>{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</p>

Target Details

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}.

Molecular Weight: 48.2 kDa Including tag.

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: N-terminal His-tag

Restrictions: For Research Use only

Handling

Format: Liquid

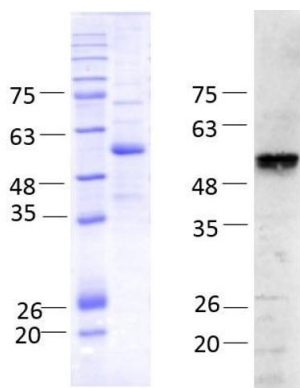
Buffer: 20 mM Hepes, pH 7.5; 50 mM NaCl; 10 % Glycerol

Handling Advice: Avoid repeated freeze-thaw cycles.

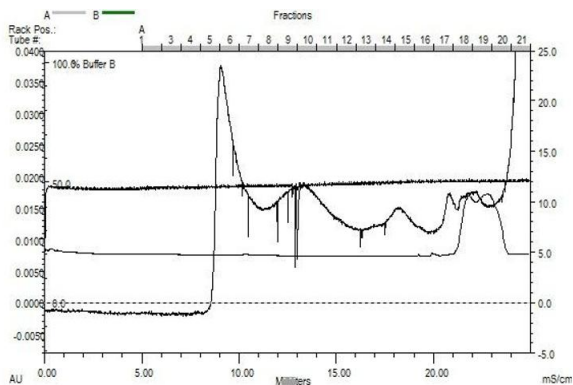
Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: Unlimited (if stored properly)



Axl Receptor tyrosin Kinase (AA 473 - 894), fraction 10



Axl Receptor tyrosin Kinase (AA 473 - 894), gel filtration, Superose 6 fraction 10

Western Blotting

Image 1. Quality Control Images: Western Blotting + SDS-PAGE

Image 2. „Crystallography Grade“ protein due to multi-step, protein-specific purification process

Size-exclusion chromatography-High Pressure Liquid Chromatography

Image 3. SEC