

**AXL Antibody (clone 7E10)**  
**Mouse Monoclonal Antibody**  
**Catalog # ALS14407****Specification**

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**AXL Antibody (clone 7E10) - Product Information**

Application	WB, IHC-P, IF, E
Primary Accession	<a href="#">P30530</a>
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Calculated MW	98kDa KDa
Dilution	WB~~1:1000 IHC-P~~N/A IF~~1:50~200 E~~N/A

**AXL Antibody (clone 7E10) - Additional Information****Gene ID** 558**Other Names**

Tyrosine-protein kinase receptor UFO, 2.7.10.1, AXL oncogene, AXL, UFO

**Target/Specificity**

Human AXL

**Reconstitution & Storage**

Long term: -20°C; Short term: +4°C. Avoid repeat freeze-thaw cycles.

**Precautions**

AXL Antibody (clone 7E10) is for research use only and not for use in diagnostic or therapeutic procedures.

**AXL Antibody (clone 7E10) - Protein Information****Name** AXL**Synonyms** UFO**Function**

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. Also plays an important role in inhibition of Toll-like receptors (TLRs)-mediated innate immune response.

**Cellular Location**

Cell membrane; Single-pass type I membrane protein

**Tissue Location**

Highly expressed in metastatic colon tumors. Expressed in primary colon tumors. Weakly expressed in normal colon tissue.

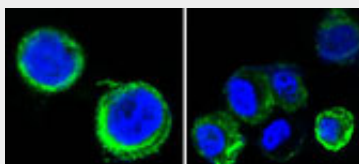
**Volume**

50 µl

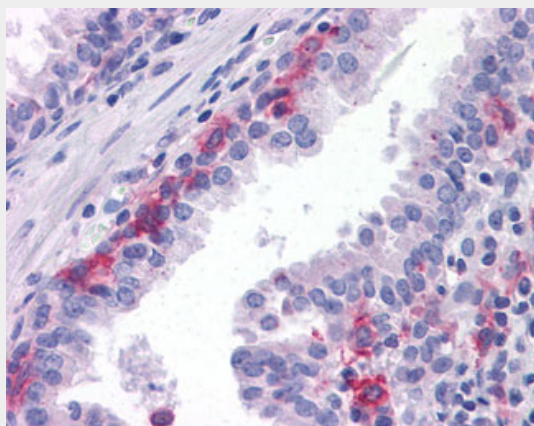
**AXL Antibody (clone 7E10) - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**AXL Antibody (clone 7E10) - Images**

Confocal immunofluorescence of methanol-fixed HEK293 cells transfected with AXL-hlgGfC using AXL...



Anti-AXL antibody IHC of human prostate.

### **AXL Antibody (clone 7E10) - Background**

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 TENC1. 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. In case of filovirus infection, seems to function as a cell entry factor.

### **AXL Antibody (clone 7E10) - References**

Partanen J., et al. Proc. Natl. Acad. Sci. U.S.A. 87:8913-8917(1990).  
O'Bryan J.P., et al. Mol. Cell. Biol. 11:5016-5031(1991).  
Janssen J.W.G., et al. Oncogene 6:2113-2120(1991).  
Grimwood J., et al. Nature 428:529-535(2004).  
Lee S.-T., et al. Oncogene 8:3403-3410(1993).