AXL Antibody – Polyclonal

PRODUCT OVERVIEW

Product Name	Axl, Polyclonal Antibody
Full Product Name	Axl (phospho Tyr691) Polyclonal Antibody
Product Gene Name	anti-Axl antibody
Clonality	Polyclonal
Molecular Weight	97,378 Da
OMIM	109135
3D Structure	ModBase 3D Structure for P30530
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for anti-Axl antibody	MBS8520553 is an antibody targeting Axl. Also known as Axl (phospho Tyr691) Polyclonal Antibody.
Other Notes	Small volumes of anti-Axl antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Axl. It may not necessarily be applicable to this product.

NCBI GI #	21536468
NCBI GeneID	558
NCBI Accession #	NP_001690.2
UniProt Primary Accession #	P30530
UniProt Secondary Accession #	Q8N5L2; Q9UD27
UniProt Related Accession #	P30530
GenBank Nucleotide #	NM_001699.5
NCBI Official Full Name	tyrosine-protein kinase receptor UFO isoform 2
NCBI Official Synonym Full Names	AXL receptor tyrosine kinase
NCBI Official Symbol	AXL
NCBI Official Synonym Symbols	ARK; UFO; JTK11; Tyro7
UniProt Protein Name	Tyrosine-protein kinase receptor UFO
UniProt Synonym Protein Names	AXL oncogene
Protein Family	Tyrosine-protein kinase receptor
UniProt Gene Name	AXL
UniProt Synonym Gene Names	UFO
NCBI Protein Information	tyrosine-protein kinase receptor UFO

NCBI Summary for Axl	The protein encoded by this gene is a member of the Tyro3-Axl-Mer (TAM) receptor tyrosine kinase subfamily. The encoded protein possesses an extracellular domain which is composed of two immunoglobulin-like motifs at the N-terminal, followed by two fibronectin type-III motifs. It transduces signals from the extracellular matrix into the cytoplasm by binding to the vitamin K-dependent protein growth arrest-specific 6 (Gas6). This gene may be involved in several cellular functions including growth, migration, aggregation and anti-inflammation in multiple cell types. Alternative splicing results in multiple transcript variants of this gene. [provided by RefSeq, Jul 2013]
UniProt Comments for Axl	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, ALX 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.
Research Articles on Axl	**1.** Taken together, these findings suggest that AXL most likely serves as an attachment factor for Zika virus on the cell surface, and that productive infection requires endocytosis and delivery of the virus to acidified intracellular compartments.
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