

Rabbit Polyclonal Anti-Axl antibody

Catalog Number: AXL-101AP

Lot Number: A502.PB1.AP

General Information

Product	Axl Antibody
Description	AXL receptor tyrosine kinase UFO isoform 1 precursor Antibody Affinity Purified
Accession #	Uniprot: Q00993 NCBI: NP_033491
Verified Applications	ELISA, IP, WB
Species Cross Reactivity	Human, Monkey, Mouse, Rat
Host	Rabbit
Immunogen	Synthetic peptide taken within amino acid region 840-880 on mouse AXL protein. The peptide was post translationally modified to achieve proper orientation and antigenicity.
Alternative Nomenclature	Adhesion related kinase antibody, AI323647 antibody, Ark antibody, AXL oncogene antibody, AXL transforming sequence/gene antibody, EC 2.7.10.1 antibody, JTK11 antibody, Tyro7 antibody, UFO antibody

Physical Properties

Quantity	100 µg
Volume	200 µl
Form	Antigen Affinity Purified Immunoglobulins
Immunoglobulin & Concentration	0.59 mg/ml IgG in antibody stabilization buffer
Storage	Store at -20°C for long term storage.

Recommended Dilutions

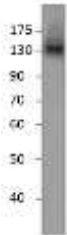
ELISA	1:10,000
Immunoprecipitation	1:200
Western Blot	1:500

Related Products

Catalog

BIOTIN-Conjugated	AXL-BIOTIN
FITC-Conjugated	AXL-FITC
Antigenic Blocking Peptide	P-AXL
Western Blot Positive Control	PC-AXL
MerTK Antibody	MKT-121AP
Phospho-MerTK Antibody	PMKT-140AP
Tyros3 Antibody	TYRO3-101AP

Application Verification:



WB of AXL-101AP with PC-AXL. 1:500 antibody dilution in DiluObuffer. Apparent MW is 130 kDa.

Dilutions are for reference only. Applications not listed above are not necessarily precluded from working with this antibody. Investigators intending to use an application that has not been verified can request a complimentary sample.

Overview:

Axl is a receptor tyrosine kinase that is involved in cell survival, proliferation, and migration. Axl has sequence homology with two other members of the receptor tyrosine kinase family, Mer and Tyro3. This tyrosine kinase is activated by the Growth Arrest Gene 6 (GAS 6) that binds and activated the kinase domain of this receptor kinase. Based on sequence homology and secondary structure predictions, Axl putative protein has a tyrosine kinase domain with two unique immunoglobulin like domain in the C-terminal end. It also has two fibronectin type III domains which are found on proteins such as receptor tyrosine phosphatases, and cell adhesion molecules. The expression of mRNA for this gene was noted in broad spectrum of developing tissues (e.g. sub epidermal cells of the skin, mesenchymal cells of the periosteum). Axl expression is also detected in most cell lines and adult tissues except those of the hematopoietic lineage (1, 2). The receptor Axl is expressed in primary prostate carcinoma and in prostate cancer cell lines as such as PC-3 and DU 145.

Axl expression increases in the neointima of balloon-injured rat carotids due to the oxidative stress which also plays a role in remodeling of injured vessels. Several cancer cell lines express Axl protein including primary prostate carcinoma and in prostate cancer cell lines as such as PC-3 and DU 145, myeloid leukemia. GAS 6 activation of Axl is also involved in experimental nephritis model and spermatogenesis (3). In testis, Axl is expressed in sertoli and leydig cell of the mature testis.

The receptor tyrosine kinase Axl protein has at least 2 variants (AXL1, AXL2) and is an approximately 130 kDa (888 amino acids) protein. The Axl protein has similar functional domains as its other family members and has a tyrosine kinase domain closer to the C-terminal region and putative phosphorylation sites. The AXL-selective antibody was generated against a conserved sequence near the C-terminal that is unique to AXL protein only. Antigenic blocking peptides (P-AXL) and western blot positive control (PC-AXL) in ready to use SDS-sample buffer are available. The polyclonal antibody strongly labels a 130 kDa protein in Western blot positive control sample for AXL (PC-AXL). Antibodies can be conjugated to fluorophores and other secondary enzymes upon request at nominal cost. FabGennix carries well characterized antibodies against other receptor tyrosine kinase family members such as MerTK and Tyro3. For a complete listing of all antibodies and lab services, please visit <http://fabgennix.com>.

References:

1. Rescigno J, Mansukhani A, Basilico C. A putative receptor tyrosine kinase with unique structural topology. *Oncogene*. 1991 Oct;6(10):1909-13.
2. Sainaghi PP et. al., Gas6 induces proliferation in prostate carcinoma cell lines expressing the Axl receptor. *J Cell Physiol*. 2005 Jul;204(1):36-44.

* For users who may require large amounts of the products listed above, please inquire about bulk material discounts.
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