

Polyclonal Antibody to AXL / UFO (843-864) - Aff - Purified

Alternate names: Tyrosine-protein kinase receptor UFO

Catalog No.: AP09905PU-N

Quantity: 0.1 mg

Concentration: 0.65 - 1.25 mg/ml (lot specific)

Background: Axl, also known as UFO, Tyro 7 and ARK, is a receptor tyrosine kinase, is involved in cell survival, proliferation, and migration and have sequence homology with other 2 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 unique 2 immunoglobulin like domain in the C-terminal end. It also has 2 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. subepidermal 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, AXL 2) and is a 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.

Uniprot ID: [P30530](#)

NCBI: [NP_001690.2](#)

GeneID: [558](#)

Host: Rabbit

Immunogen: Peptide selected from position 843-864

Format:	State: Liquid Ig fraction Purification: Affinity chromatography Buffer System: Stabilization buffer
Applications:	ELISA. Western blot 1:500. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	This antibody detects a single 130kDa AXL protein. The antibody also reacts weakly to a 45 kDa protein in rat testis extracts.
Species Reactivity:	Tested: Human, Monkey, Mouse, Rat
Storage:	Store (in aliquots) at -20 °C. Avoid repeated freezing and thawing. Shelf life: one year from despatch.
General Readings:	1. Rescigno J, Mansukhani A, Basilico C. A putative receptor tyrosine kinase with unique structural topology. <i>Oncogene</i> . 1991 Oct;6(10):1909-13. 2. Sainaghi PP, Castello L, Bergamasco L, Galletti M, Bellosta P, Avanzi GC. Gas6 induces proliferation in prostate carcinoma cell lines expressing the Axl receptor. <i>J Cell Physiol</i> . 2005 Jul;204(1):36-44.