

Product Information

ANTI-AXL, MOUSE

Developed in Goat
Affinity Isolated Antibody

Product Number **A2441**

Product Description

Anti-Axl is developed in goat using purified recombinant mouse Axl, expressed in NSO cells, as immunogen. Axl specific IgG is purified from goat serum using mouse Axl affinity chromatography.

Anti-Axl recognizes recombinant mouse Axl by immunoblotting and ELISA. In immunoblotting and ELISA, this antibody demonstrates 10% cross-reactivity with recombinant human Axl.

The reduced mouse Axl/Fc monomer has a calculated molecular mass of approximately 73.8 kDa. Due to glycosylation, the recombinant protein migrates as an approximately 100 -110 kDa protein in SDS-PAGE under reducing conditions.

Axl (Ufo, Ark), Dtk (Sky, Tyro3, Rse, Brt) and Mer (human and murine homologues of chicken c-Eyk) are members of a receptor tyrosine kinase subfamily. Their extracellular domains have two Ig-like motifs and two fibronectin type III motifs.^{1, 2} These receptors bind to vitamin K-dependent protein growth-arrest-specific gene 6 (Gas6).^{3, 4} Binding of Gas6 induces receptor autophosphorylation and downstream signaling pathways that lead to cell proliferation, migration or the prevention of apoptosis. These receptors are also involved in hematopoiesis, embryonic development, tumorigenesis, and regulation of testicular functions.³ Axl is expressed in most cell lines and adult tissues.

Reagent

Anti-Axl is supplied as 100 µg of antibody lyophilized from a 0.2 µm filtered solution in phosphate buffered saline.

Preparation Instructions

To one vial of lyophilized powder, add 1 ml of 0.2 µm-filtered solution of phosphate-buffered saline (PBS) to produce a 0.1 mg/ml stock solution of antibody. If

aseptic technique is used, no further filtration should be needed for use in cell culture environments.

Storage/Stability

Prior to reconstitution, store at -20°C. The reconstituted product may be stored at 2-8°C for at least one month. For prolonged storage, freeze in working aliquots at -20°C. Avoid repeated freezing and thawing.

Product Profile

For ELISAs, a working concentration of 0.5-1.0 µg/ml detects approximately 0.12 ng/well of recombinant mouse Axl.

For immunoblotting, a working concentration of 0.1-0.2 µg/ml detects mouse Axl at approximately 2 ng/lane under non-reducing or reducing conditions.

Note: In order to obtain best results in different techniques and preparations we recommend determining optimal working dilutions by titration test.

Endotoxin: <15 ng/mg antibody determined by the LAL method.

References

1. Faust, M., et al., The murine ufo receptor: molecular cloning, chromosomal localization and in situ expression analysis. *Oncogene*, **7**, 1287-1293 (1992).
2. Rescigno, J., et al., A putative receptor tyrosine kinase with unique structural topology. *Oncogene*, **6**, 1909-1913 (1991).
3. Crosier, K.E., and Crosier, P.S., New insights into the control of cell growth; the role of the Axl family. *Pathology*, **29**, 131-135 (1997).
4. Nagata, K., et al., Identification of the product of growth arrest-specific gene 6 as a common ligand for Axl, Sky, and Mer receptor tyrosine kinases. *J. Biol. Chem.*, **271**, 30022-30027 (1996).

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