

KD-Validated Anti-AXL Rabbit Monoclonal Antibody

Rabbit monoclonal antibody

Catalog # AGI1979

Product Information

Application	WB, ICC
Primary Accession	P30530
Reactivity	Rat, Human
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Names	24GB6870
Calculated MW	98337
Gene Name	AXL
Aliases	AXL; AXL Receptor Tyrosine Kinase; UFO; JTK11; Tyro7; ARK; Tyrosine-Protein Kinase Receptor UFO; AXL Oncogene; EC 2.7.10.1; AXL Transforming Sequence/Gene; EC 2.7.10; AXL3
Immunogen	Recombinant protein of human Axl

Additional Information

Gene ID	558
Other Names	Tyrosine-protein kinase receptor UFO, 2.7.10.1, AXL oncogene, AXL, UFO

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.

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