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Anti-AXL / UFO Reference Antibody (tilvestamab)

Recombinant Antibody
Catalog # APR10075

Product Information

Application	Functional assay, Kinetics (SPR), Kinetics (BLI), FACS, E, FTA
Primary Accession	P30530
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG1
Calculated MW	98337

Additional Information

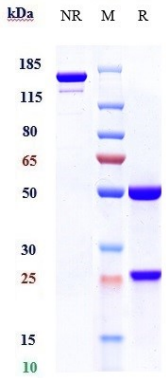
Target/Specificity	AXL / UFO
Endotoxin	
Conjugation	Unconjugated
Expression system	CHO
Format	Purified monoclonal antibody supplied in PBS, pH6.0, without preservative.This antibody is purified through a protein A column.

Protein Information

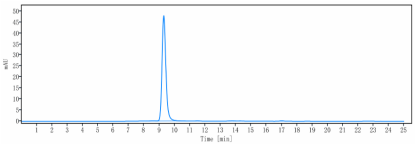
Name	AXL
Synonyms	UFO
Function	Receptor tyrosine kinase that transduces signals from the extracellular matrix into the cytoplasm by binding growth factor GAS6 and which is thus regulating many physiological processes including cell survival, cell proliferation, migration and differentiation. Ligand binding 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.

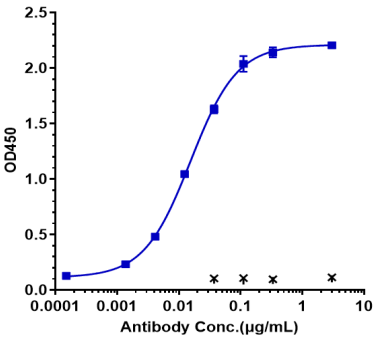
Images



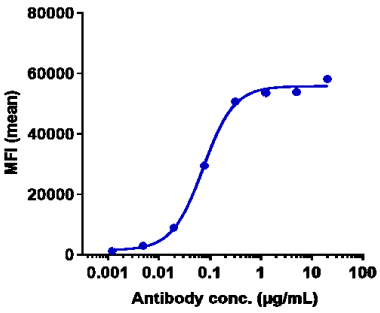
Anti-AXL / UFO Reference Antibody (tilvestamab) on SDS-PAGE under reducing (R) condition. The purity of the protein is greater than 95%.



The purity of Anti-AXL / UFO Reference Antibody (tilvestamab) is more than 95%, determined by SEC-HPLC.

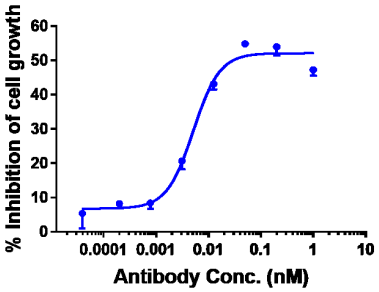


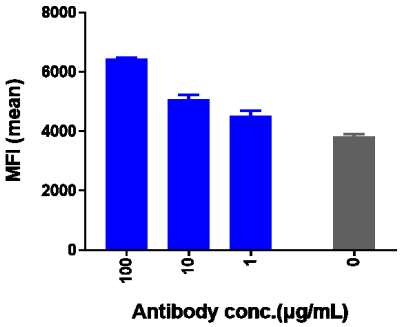
Immobilized human Axl FC at 2 ug/mL can bind Anti-AXL / UFO Reference Antibody (tilvestamab), EC50=0.01542 ug/mL.



Human AXL HEK293 cells were stained with Anti-AXL / UFO Reference Antibody (tilvestamab) and negative control protein respectively, washed and then followed by PE and analyzed with FACS, EC50=0.07318 ug/mL.

The endocytosis ratio tilvestamab by U251 increased with the increase of antibody concentration, and the Internalization Rate (%) reached 40% at antibody concentration of 1 nM.





Anti-AXL / UFO Reference Antibody (tilvestamab) P-AKT Test was evaluated using U251 cell. The max induction fold was approximately 1.43.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.