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Anti-AXL / UFO Reference Antibody (tilvestamab)

Recombinant Antibody
Catalog # APR10075

Specification

Anti-AXL / UFO Reference Antibody (tilvestamab) - Product Information

Application	**FC, E, FTA**
Primary Accession	P30530
Reactivity	**Cynomolgus, Human**
Clonality	**Monoclonal**
Isotype	**IgG1**
Calculated MW	**146.22 KDa**

Anti-AXL / UFO Reference Antibody (tilvestamab) - Additional Information

Target/Specificity
AXL / UFO

Endotoxin
< 0.001EU/ μg,determined by LAL method.

Conjugation
Unconjugated

Expression system
CHO Cell

Format
Purified monoclonal antibody supplied in PBS, pH6.0, without preservative.This antibody is purified through a protein A column.

Anti-AXL / UFO Reference Antibody (tilvestamab) - 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

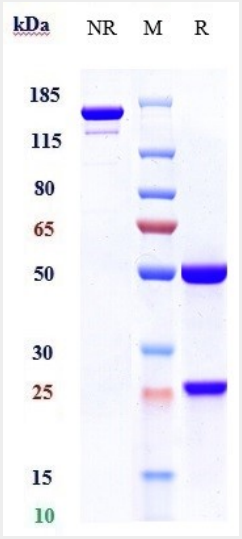
Tissue Location
Highly expressed in metastatic colon tumors. Expressed in primary colon tumors. Weakly expressed in normal colon tissue.

Anti-AXL / UFO Reference Antibody (tilvestamab) - Protocols

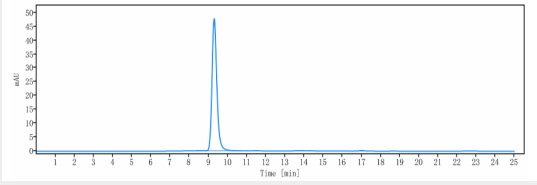
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-AXL / UFO Reference Antibody (tilvestamab) - Images



Anti-AXL / UFO Reference Antibody (tilvestamab) on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. 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.

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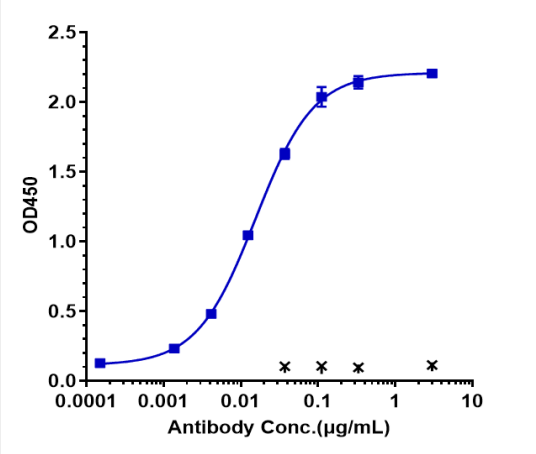
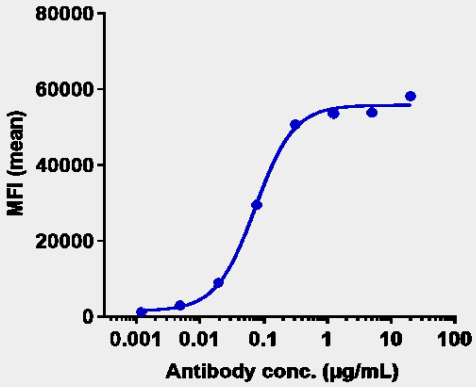
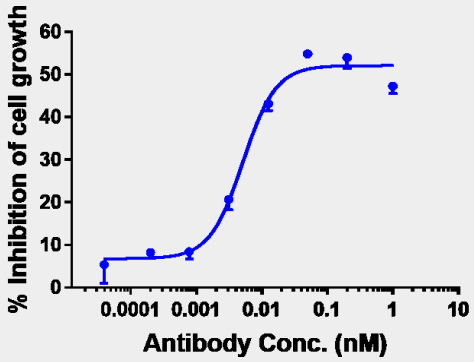


Immobilized human Axl FC at 2 μg/mL can bind Anti-AXL / UFO Reference Antibody (tilvestamab)，EC50=0.01542 μg/mL



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, EC127=0.07318 μg/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.

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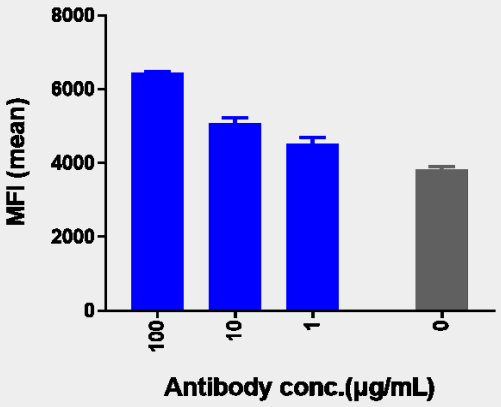

Anti-AXL / UFO Reference Antibody (tilvestamab) P-AKT Test was evaluated using U251 cell. The max induction fold was approximately 1.43.