

## PE/Dazzle™ 594 anti-human AXL Antibody

<b>Catalog# / Size</b>	386503 / 25 tests 386504 / 100 tests
<b>Clone</b>	S21005C
<b>Regulatory Status</b>	RUO
<b>Other Names</b>	ARK, AXL receptor tyrosine kinase, AXL transforming sequence/gene, AXL oncogene, JTK11, Tyro7, tyrosine-protein kinase receptor UFO
<b>Isotype</b>	Mouse IgG1, κ
<b>Description</b>	AXL, also known as ARK or UFO, is a widely expressed glycoprotein in the TAM (Tyr03/Dtk, AXL, and Mer) receptor tyrosine kinase family. AXL is highly expressed in solid cancers. It is also expressed on a small population of human dendritic cells that share characteristics of classical and plasmacytoid dendritic cells. AXL binds the vitamin K-dependent growth arrest specific 6 (Gas6) protein and induces receptor autophosphorylation and downstream signaling pathways that are related to cell proliferation, migration, or apoptosis. AXL is also involved in hematopoiesis, embryonic development, tumorigenesis, and regulation of testicular functions. Recent studies have also shown that AXL and Mer are both linked to Alzheimer's disease.

### Product Details

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<b>Verified Reactivity</b>	Human
<b>Antibody Type</b>	Monoclonal
<b>Host Species</b>	Mouse
<b>Formulation</b>	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA)
<b>Preparation</b>	The antibody was purified by affinity chromatography and conjugated with PE/Dazzle™ 594 under optimal conditions.
<b>Concentration</b>	Lot-specific (to obtain lot-specific concentration and expiration, please enter the lot number in our <a href="#">Certificate of Analysis</a> online tool.)
<b>Storage &amp; Handling</b>	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. <b>Do not freeze.</b>
<b>Application</b>	<a href="#">FC - Quality tested</a>
<b>Recommended Usage</b>	Each lot of this antibody is quality control tested by <a href="#">immunofluorescent staining with flow cytometric analysis</a> . For flow cytometric staining, the suggested use of this reagent is 5 µL per million cells in 100 µL staining volume or 5 µL per 100 µL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.  * PE/Dazzle™ 594 has a maximum excitation of 566 nm and a maximum emission of 610 nm.
<b>Excitation Laser</b>	Blue Laser (488 nm) Green Laser (532 nm)/Yellow-Green Laser (561 nm)
<b>Application Notes</b>	Clone S21005C recognizes a different epitope compared to clone S21005B.  Clone S21005C does not block GAS6 induced AKT and ERK phosphorylation in H1299 cells.
<b>RRID</b>	AB_3675108 (BioLegend Cat. No. 386503) AB_3675108 (BioLegend Cat. No. 386504)

### Antigen Details

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<b>Structure</b>	Transmembrane protein with two fibronectin type-III domains, two Ig-like C2-type domains, and one tyrosine kinase domain
<b>Distribution</b>	Highly expressed in solid cancers and also expressed on human blood plasmacytoid dendritic cells and myeloid dendritic cells
<b>Function</b>	Binding of Gas6 induces receptor autophosphorylation and downstream signaling pathways that are related to cell proliferation, migration, or apoptosis. It is involved in hematopoiesis, embryonic development, tumorigenesis, and regulation of testicular functions. Recent studies have shown that AXL and Mer are both linked to Alzheimer's disease.
<b>Ligand/Receptor</b>	Gas6 and Protein S
<b>Cell Type</b>	Dendritic cells, NK cells
<b>Biology Area</b>	Apoptosis/Tumor Suppressors/Cell Death, Cardiovascular Biology, Cell Death, Cell Proliferation and Viability, Immuno-Oncology, Signal Transduction
<b>Molecular Family</b>	Cytokine/Chemokine Receptors, Cytokines/Chemokines
<b>Antigen References</b>	<ol style="list-style-type: none"> <li>Holland S, <i>et al.</i> 2005. <i>Canc Res.</i> 65:9294-303.</li> <li>Lee WP, <i>et al.</i> 2002. <i>Oncogene.</i> 21:329-36.</li> <li>Demarchi F, <i>et al.</i> 2001. <i>J Biol Chem.</i> 276:31738-44.</li> </ol>
<b>Gene ID</b>	<a href="#">558</a>

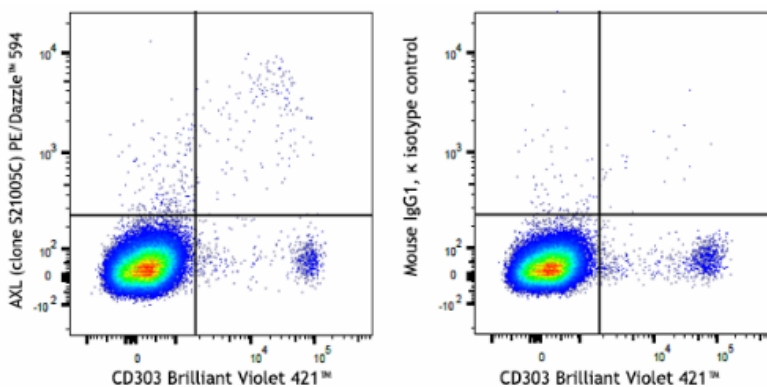
## Related Protocols

- [Cell Surface Flow Cytometry Staining Protocol](#)

## Other Formats

Purified anti-human AXL, PE/Dazzle™ 594 anti-human AXL, PerCP/Cyanine5.5 anti-human AXL, PE anti-human AXL, Brilliant Violet 421™ anti-human AXL, APC/Cyanine7 anti-human AXL

## Product Data



Human peripheral blood mononuclear cells were stained with a lineage panel of anti-human CD3/CD19/CD14/CD15 APC, anti-human CD303 (clone 201A) Brilliant Violet 421™ and anti-human AXL (clone S21005C) PE/Dazzle™ 594 (left) or mouse IgG1, κ PE/Dazzle™ 594 isotype control (right). Data shown was gated on the lineage-negative population.

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