

Brilliant Violet 421™ anti-human AXL Antibody

Catalog# / Size	386509 / 25 tests 386510 / 100 tests
Clone	S21005C
Regulatory Status	RUO
Other Names	ARK, AXL receptor tyrosine kinase, AXL transforming sequence/gene, AXL oncogene, JTK11, Tyro7, tyrosine-protein kinase receptor UFO
Isotype	Mouse IgG1, κ
Description	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

Verified Reactivity	Human
Antibody Type	Monoclonal
Host Species	Mouse
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA)
Preparation	The antibody was purified by affinity chromatography and conjugated with Brilliant Violet 421™ under optimal conditions.
Concentration	Lot-specific (to obtain lot-specific concentration and expiration, please enter the lot number in our Certificate of Analysis online tool.)
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. Do not freeze.
Application	FC - Quality tested
Recommended Usage	<p>Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. 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.</p> <p>Brilliant Violet 421™ excites at 405 nm and emits at 421 nm. The standard bandpass filter 450/50 nm is recommended for detection. Brilliant Violet 421™ is a trademark of Sirigen Group Ltd.</p> <p>Learn more about Brilliant Violet™.</p> <p>This product is subject to proprietary rights of Sirigen Inc. and is made and sold under license from Sirigen Inc. The purchase of this product conveys to the buyer a non-transferable right to use the purchased product for research purposes only. This product may not be resold or incorporated in any manner into another product for resale. Any use for therapeutics or diagnostics is strictly prohibited. This product is covered by U.S. Patent(s), pending patent applications and foreign equivalents.</p>
Excitation Laser	Violet Laser (405 nm)
Application Notes	Clone S21005C recognizes a different epitope compared to clone S21005B.

Clone S21005C does not block GAS6 induced AKT and ERK phosphorylation in H1299 cells.

RRID AB_3675111 (BioLegend Cat. No. 386509)
AB_3675111 (BioLegend Cat. No. 386510)

Antigen Details

Structure	Transmembrane protein with two fibronectin type-III domains, two Ig-like C2-type domains, and one tyrosine kinase domain
Distribution	Highly expressed in solid cancers and also expressed on human blood plasmacytoid dendritic cells and myeloid dendritic cells
Function	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.
Ligand/Receptor	Gas6 and Protein S
Cell Type	Dendritic cells, NK cells
Biology Area	Apoptosis/Tumor Suppressors/Cell Death, Cardiovascular Biology, Cell Death, Cell Proliferation and Viability, Immuno-Oncology, Signal Transduction
Molecular Family	Cytokine/Chemokine Receptors, Cytokines/Chemokines
Antigen References	<ol style="list-style-type: none">Holland S, <i>et al.</i> 2005. <i>Canc Res.</i> 65:9294-303.Lee WP, <i>et al.</i> 2002. <i>Oncogene.</i> 21:329-36.Demarchi F, <i>et al.</i> 2001. <i>J Biol Chem.</i> 276:31738-44.
Gene ID	558

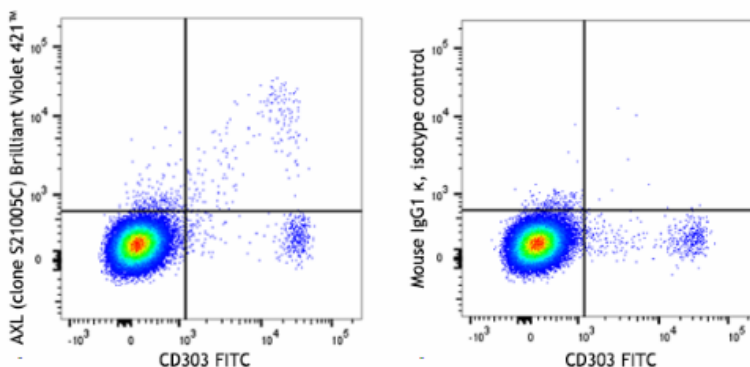
Related Protocols

- [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 cocktail of anti-human CD3/CD19/CD14/CD15 PE, anti-human CD303 (clone 201A) FITC and anti-human AXL (clone S21005C) Brilliant Violet 421™ (left) or mouse IgG1 κ, Brilliant Violet 421™ isotype control (right). Data shown was gated on the lineage negative population.

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