

Brilliant Violet 421™ anti-human CD253 (TRAIL) Antibody

Catalog# / Size	308221 / 25 tests 308222 / 100 tests
Clone	RIK-2
Regulatory Status	RUO
Other Names	Apo-2 ligand, Apo-2L, TNFSF10, CD253
Isotype	Mouse IgG1, κ
Description	TRAIL is a 30 kD protein known as TNF-related apoptosis inducing ligand, CD253, TNFSF10, or Apo-2L. It can be expressed as a cell surface (30 kD) and soluble ligand (19-20 kD) produced by megakaryocytes and platelets, monocytes, neutrophils, NK cells and activated T cells. This antigen is also expressed on tumor cells and transformed cell lines. TRAIL has been reported to induce apoptosis in tumor and transformed cell lines by a caspase-dependent process. This antibody is useful for flow cytometric staining and blocking studies.

Product Details

Verified Reactivity	Human
Reported Reactivity	African Green
Antibody Type	Monoclonal
Host Species	Mouse
Immunogen	Human TRAIL-transfected mouse cell line
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	Additional reported applications (for the relevant formats) include: blocking ¹⁻⁴ of TRAIL-induced apoptosis and T cell mediated cytotoxicity. The Ultra-LEAF™ purified antibody (Endotoxin <0.01

EU/μg, Azide-Free, 0.2 μm filtered) is recommended for functional assays (Cat. No. 308214).

Application References

(PubMed link indicates BioLegend citation)

1. Kayagaki N, *et al.* 1999. *J. Immunol.* 162:2639. (Block)
2. Uno K, *et al.* 2003. *Blood* 101:3658. (Block)
3. Sato K, *et al.* 2005. *J. Immunol.* 174:4025. (Block)
4. Denny MF, *et al.* 2007. *Blood* 110:2907. (Block)
5. Kemter E, *et al.* 2011. *Xenotransplantation.* 19:40. [PubMed](#)

RRID

AB_3683318 (BioLegend Cat. No. 308221)
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Antigen Details

Structure	TNF ligand superfamily member, approximately 30 kD
Distribution	Widespread, highest expression in spleen, lung, prostate; NK, monocytes, neutrophils, activated T cells
Function	Induces apoptosis in tumorigenic and transformed cell lines, involved in T cell mediated cytotoxicity, TRAIL ligand of cognate receptors induces NF-κB signaling in a variety of cell types
Ligand/Receptor	DR4 and DR5 cognate receptors, also binds to the decoy receptors DcR1 and DcR2
Cell Type	Monocytes, Neutrophils, NK cells, T cells
Biology Area	Immunology
Molecular Family	CD Molecules
Antigen References	<ol style="list-style-type: none">1. Pitti RM, <i>et al.</i> 1996. <i>J. Biol. Chem.</i> 271:12687.2. Mariani SM, <i>et al.</i> 1998. <i>Eur. J. Immunol.</i> 28:973.3. Dorothee G, <i>et al.</i> 2002. <i>J. Immunol.</i> 169:809.4. Crist SA, <i>et al.</i> 2004. <i>Exp. Hematology</i> 32:1073.
Gene ID	8743

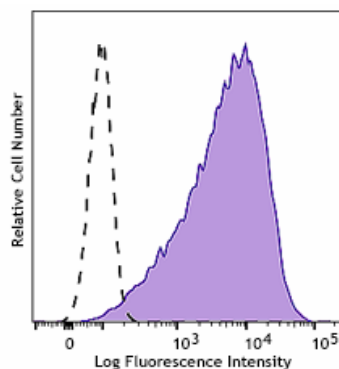
Related Protocols

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

Other Formats

Purified anti-human CD253 (TRAIL), PE anti-human CD253 (TRAIL), APC anti-human CD253 (TRAIL), TotalSeq™-A0803 anti-human CD253 (TRAIL), Ultra-LEAF™ Purified anti-human CD253 (TRAIL), PE/Cyanine7 anti-human CD253 (TRAIL), TotalSeq™-C0803 anti-human CD253 (TRAIL), TotalSeq™-B0803 anti-human CD253 (TRAIL), Brilliant Violet 421™ anti-human CD253 (TRAIL) Antibody, TotalSeq™-D0803 anti-human CD253 (TRAIL) Antibody

Product Data



Human TRAIL transfected HEK293T cells were stained with anti-human CD253 (TRAIL) (clone RIK-2) Brilliant Violet 421™ (filled histogram) or mouse IgG1, κ Brilliant Violet 421™ isotype control (open histogram).

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