

Spark Violet™ 538 anti-human CD8 Recombinant Antibody

Catalog# / Size	303805 / 25 tests 303806 / 100 tests
Clone	QA18A37
Regulatory Status	RUO
Other Names	T8, Leu2
Isotype	Mouse IgG1, κ
Description	CD8a is a 32-34 kD type I glycoprotein. It forms a homodimer (CD8a/a) or heterodimer (CD8a/b) with CD8b. CD8, also known as T8 and Leu2, is a member of the immunoglobulin superfamily found on the majority of thymocytes, a subset of peripheral blood T cells, and NK cells (which express almost exclusively CD8a homodimers). CD8 acts as a co-receptor with MHC class I-restricted T cell receptors in antigen recognition and T cell activation and has been shown to play a role in thymic differentiation. Two domains in CD8a are important for function: the extracellular IgSF domain binds the α3 domain of MHC class I and the cytoplasmic CXCP motif binds the tyrosine kinase p56 Lck.

Product Details

Verified Reactivity	Human
Antibody Type	Recombinant
Host Species	Mouse
Immunogen	PROPRIETARY
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 Spark Violet™ 538 under optimal conditions.
Concentration	Lot-specific (to obtain lot-specific concentration, please enter the lot number in our Concentration and Expiration Lookup or Certificate of Analysis online tools.)
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	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. * Spark Violet™ 538 has a maximum excitation of 396 nm and a maximum emission of 538 nm.
Excitation Laser	Violet Laser (405 nm)
RRID	AB_2890736 (BioLegend Cat. No. 303805) AB_2890736 (BioLegend Cat. No. 303806)

Antigen Details

Structure	relg superfamily, homodimer or heterodimer with CD8b, 32-34 kD
Distribution	Majority of thymocytes, T cell subset, NK cells
Ligand/Receptor	MHC Class I molecules

Cell Type	NK cells, T cells, Thymocytes
Biology Area	Immunology
Molecular Family	CD Molecules
Antigen References	1. Barclay N, <i>et al.</i> 1993. The Leucocyte Antigen FactsBook. Academic Press Inc. San Diego.
Gene ID	925

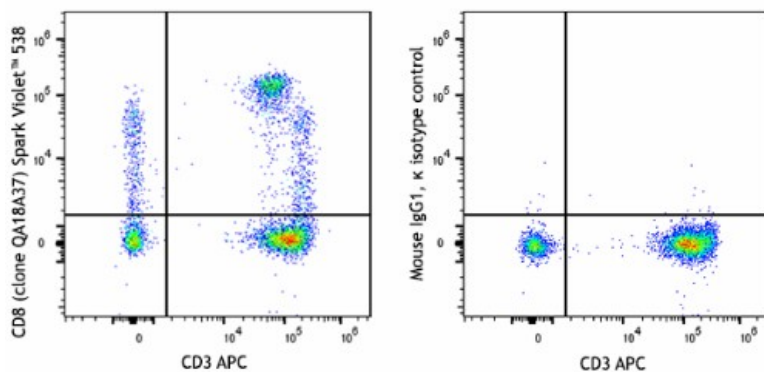
Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

Other Formats

PE anti-human CD8 Recombinant Antibody, Spark Violet™ 538 anti-human CD8 Recombinant Antibody, Purified anti-human CD8 Recombinant Antibody, Spark YG™ 593 anti-human CD8 Recombinant Antibody

Product Data



Human peripheral blood lymphocytes were stained with CD3 APC and CD8 recombinant (clone QA18A37) Spark Violet™ 538 (left) or mouse IgG1, κ Spark Violet™ 538 isotype control (right).

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