

Spark PLUS V450™ anti-mouse CD8a Recombinant Antibody

Catalog# / Size	155027 / 25 µg 155028 / 100 µg
Clone	QA17A07
Regulatory Status	RUO
Other Names	T8, Lyt2, Ly-2
Isotype	Mouse IgG1, κ
Description	CD8, also known as Lyt-2, Ly-2, or T8, consists of disulfide-linked α and β chains that form the α(CD8a)/β(CD8b) heterodimer and α/α homodimer. CD8a is a 34 kD protein that belongs to the immunoglobulin family. The CD8 α/β heterodimer is expressed on the surface of most thymocytes and a subset of mature TCR α/β T cells. CD8 expression on mature T cells is non-overlapping with CD4. The CD8 α/α homodimer is expressed on a subset of γ/δ TCR-bearing T cells, NK cells, intestinal intraepithelial lymphocytes, and lymphoid dendritic cells. CD8 is an antigen co-receptor on T cells that interacts with MHC class I on antigen-presenting cells or epithelial cells. CD8 promotes T cell activation through its association with the TCR complex and protein tyrosine kinase lck.

Product Details

Verified Reactivity	Mouse
Antibody Type	Recombinant
Host Species	Mouse
Immunogen	Mouse thymus or spleen
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide
Preparation	The antibody was purified by affinity chromatography and conjugated with Spark PLUS V450™ under optimal conditions.
Concentration	0.2 mg/mL
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 ≤ 0.5 µg per million cells in 100 µL volume. It is recommended that the reagent be titrated for optimal performance for each application. * Spark PLUS V450™ has a maximum excitation of 405 nm and a maximum emission of 452 nm.
Excitation Laser	Violet Laser (405 nm)

Antigen Details

Structure	Ig superfamily, CD8a chain, 34 kD
Distribution	Most thymocytes, T cell subset, some NK cells, lymphoid dendritic cells
Function	Co-receptor for TCR

Ligand/Receptor	MHC class I molecule
Cell Type	Dendritic cells, NK cells, T cells, Thymocytes
Biology Area	Immunology
Molecular Family	CD Molecules

Antigen References

1. Barclay AN, Brown MH. 1997. *Biochem. Soc. Trans.* 25:224-8.
2. Zamoyska R. 1994. *Immunity* 1:243.
3. Ellmeier W, et al. 1999. *Annu. Rev. Immunol.* 17:523.

Gene ID [12525](#)

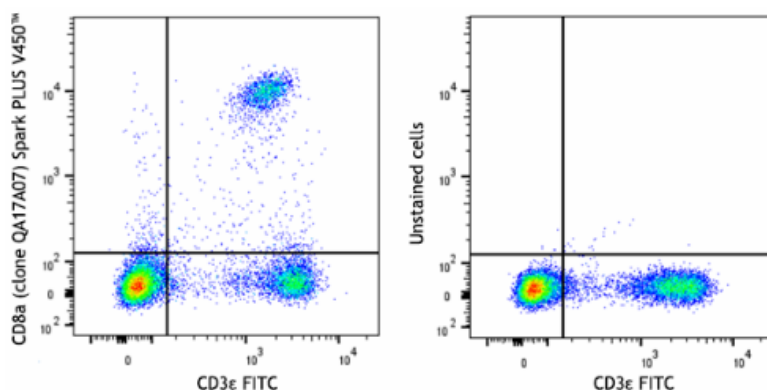
Related Protocols

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

Other Formats

PerCP/Cyanine5.5 anti-mouse CD8a Recombinant Antibody, APC/Cyanine7 anti-mouse CD8a Recombinant Antibody, PE/Cyanine7 anti-mouse CD8a Recombinant Antibody, Alexa Fluor® 700 anti-mouse CD8a Recombinant Antibody, Spark YG™ 593 anti-mouse CD8a Recombinant Antibody, PerCP/Fire™ 780 anti-mouse CD8a Recombinant Antibody, Purified anti-mouse CD8a Recombinant Antibody, FITC anti-mouse CD8a Recombinant Antibody, PE anti-mouse CD8a Recombinant Antibody, Ultra-LEAF™ Purified anti-mouse CD8a Recombinant Antibody, Spark Violet™ 538 anti-mouse CD8a Recombinant Antibody, Spark PLUS V450™ anti-mouse CD8a Recombinant Antibody, APC anti-mouse CD8a Recombinant Antibody, Brilliant Violet 421™ anti-mouse CD8a Recombinant Antibody

Product Data



C57BL/6 splenocytes were stained with anti-mouse CD3ε (clone 145-2C11) FITC and anti-mouse CD8a recombinant (clone QA17A07) Spark PLUS V450™ (left) or anti-mouse CD3ε (clone 145-2C11) FITC only (right).

For Research Use Only. Not for diagnostic or therapeutic use.

This product is supplied subject to the terms and conditions, including the limited license, located at www.biolegend.com/terms ("Terms") and may be used only as provided in the Terms. Without limiting the foregoing, BioLegend products may not be used for any Commercial Purpose as defined in the Terms, resold in any form, used in manufacturing, or reverse engineered, sequenced, or otherwise studied or used to learn its design or composition without express written approval of BioLegend. Regardless of the information given in this document, user is solely responsible for determining any license requirements necessary for user's intended use and assumes all risk and liability arising from use of the product. BioLegend is not responsible for patent infringement or any other risks or liabilities whatsoever resulting from the use of its products.

BioLegend, the BioLegend logo, and all other trademarks are property of BioLegend, Inc. or their respective owners, and all rights are reserved.

8999 BioLegend Way, San Diego, CA 92121 www.biolegend.com
Toll-Free Phone: 1-877-Bio-Legend (246-5343) Phone: (858) 768-5800 Fax: (877) 455-9587