Product Data Sheet

Spark YG™ 593 anti-mouse CD8a Recombinant

Catalog # / Size:	1375120 / 100 µg 1375115 / 25 µg
Clone:	QA17A07
Isotype:	Mouse IgG1, κ
Immunogen:	Mouse thymus or spleen
Reactivity:	Mouse
Preparation:	The antibody was purified by affinity chromatography and conjugated with Spark YG™ 593 under optimal conditions.
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide
Concentration:	0.5 mg/mL

C57BL/6 mouse splenocytes were stained with anti-mouse CD3ε APC and anti-mouse CD8a recombinant (clone QA17A07) Spark YG™ 593 (left) or anti-mouse CD3ε APC only (right).

Applications:

Applications:	Flow Cytometry
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 YG™ 593 has a maximum excitation of 573 nm and a maximum emission of 593 nm.

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.

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.

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