## Spark Blue<sup>™</sup> 550 anti-mouse CD3

Catalog # / Size:	1101295 / 25 μg 1101300 / 100 μg
Clone:	17A2
lsotype:	Rat IgG2b, к
Immunogen:	γδTCR-positive T-T hybridoma D1
Reactivity:	Mouse
Preparation:	The antibody was purified by affinity chromatography and conjugated with Spark Blue™ 550 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 CD3 (clone 17A2) Spark Blue™ 550 (filled histogram). Open histogram represents unstained cells.

## **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  $\leq 1.0 \ \mu$ g per million cells in 100  $\mu$ L volume. It is recommended that the reagent be titrated for optimal performance for each application.

\* Spark Blue  $^{\rm m}$  550 has a maximum excitation of 516 nm and a maximum emission of 540 nm.

**Description:** CD3, also known as T3, is a member of the Ig superfamily and primarily expressed on T cells, NK-T cells, and at different levels on thymocytes during T cell differentiation. CD3 is composed of CD3 $\epsilon$ ,  $\delta$ ,  $\gamma$  and  $\zeta$  chains. It forms a TCR complex by associating with TCR  $\alpha/\beta$  or  $\gamma/\delta$  chains. CD3 plays a critical role in TCR signal transduction, T cell activation, and antigen recognition by binding the peptide/MHC antigen complex

Antigen	1. Barclay A, et al. 1997. The Leukocyte Antigen FactsBook Academic Press.
References:	2. Davis MM. 1990. Annu. Rev. Biochem. 59:475.
	3. Weiss A, <i>et al.</i> 1994. <i>Cell</i> 76:263.