

**Spark NIR™ 685 anti-human CD27**

**Catalog # / Size:** 2114275 / 25 tests  
2114280 / 100 tests

**Clone:** O323

**Isotype:** Mouse IgG1, κ

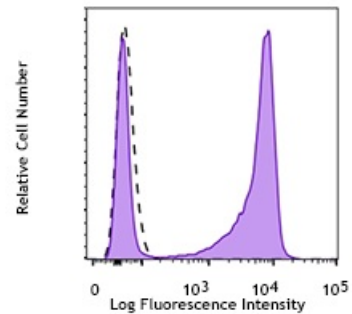
**Reactivity:** Human, Non-human primate, Other

**Preparation:** The antibody was purified by affinity chromatography and conjugated with Spark NIR™ 685 under optimal conditions.

**Formulation:** Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).

**Workshop Number:** IV T-186

**Concentration:** Lot-specific



Human peripheral blood lymphocytes were stained with CD27 (clone O323) Spark NIR™ 685 (filled histogram), or mouse IgG1, κ Spark NIR™ 685 isotype control (open histogram).

**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 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 NIR™ 685 has a maximum excitation of 665 nm and a maximum emission of 685 nm.

- Application References:**
1. Knapp W, *et al.* Eds. 1989. Leucocyte Typing IV. Oxford University Press. New York.
  2. Correia DV, *et al.* 2011. *Blood* 118:992. (FC) [PubMed](#)

**Description:** CD27 is a 50-55 kD type I membrane protein also known as S152 and T14. It is a lymphocyte-specific member of the TNF-receptor superfamily. CD27 is expressed on medullary thymocytes, virtually all mature T cells, some B cells, and NK cells. CD27 binds to CD70 and plays an important role in costimulation of T cell activation, and regulation of B cell differentiation and proliferation. The cytoplasmic domains of CD27 have also been shown to interact with TRAF2 and TRAF5 to elicit NF-κB and SAPK/JNK activation.

- Antigen References:**
1. Hintzen R, *et al.* 1994. *Immunol. Today* 15:307.
  2. Agematsu K, *et al.* 1995. *J. Immunol.* 154:3627.