SONY

# Product Data Sheet

## Alexa Fluor® 700 anti-human CD27

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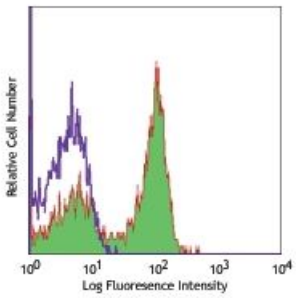
| **Catalog # / Size:** | 2114070 / 100 µg<br>2114065 / 25 µg |
| **Clone:** | O323 |
| **Isotype:** | Mouse IgG1, κ |
| **Reactivity:** | Human |
| **Preparation:** | The antibody was purified by affinity chromatography, and conjugated with Alexa Fluor® 700 under optimal conditions. |
| **Formulation:** | Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide. |
| **Workshop Number:** | IV T-186 |
| **Concentration:** | 0.5 |




Human peripheral blood lymphocytes stained with O323 Alexa Fluor® 700

## Applications:

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| **Applications:** | Flow Cytometry |
| **Recommended Usage:** | Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. The suggested use of this reagent is ≤1.0 microg per million cells in 100 microL volume. It is highly recommended that the reagent be titrated for optimal performance for each application.<br><br>* Alexa Fluor® 700 has a maximum emission of 719 nm when it is excited at 633 nm / 635 nm. Prior to using Alexa Fluor® 700 conjugate for flow cytometric analysis, please verify your flow cytometer's capability of exciting and detecting the fluorochrome. |
| **Application References:** | 1. Knapp W, *et al.* Eds. 1989. Leucocyte Typing IV. Oxford University Press. New York.<br>2. Correia DV, *et al.* 2011. *Blood* 118:992. (FC) PubMed<br>3. Cherukuri A, *et al.* 2014. *J Am Soc Nephrol.* 7:1575. PubMed |

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| **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.<br>2. Agematsu K, *et al.* 1995. *J. Immunol.* 154:3627. |


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