

Spark PLUS UV395™ anti-mouse CD103 Antibody

Catalog# / Size	110911 / 25 µg 110912 / 100 µg
Clone	W19396D
Regulatory Status	RUO
Other Names	CD103, ITAGE, integrin alpha E
Isotype	Rat IgG2b, κ
Description	CD103 is the alpha E integrin, which forms a heterodimer with integrin beta 7. The heterodimer complex binds to E-cadherin. It is expressed in on T cells, notably in subpopulations in the lamina propria, on regulatory T cells, or resident memory T cells, and a subset of dendritic cells in gut mucosa. CD103 is thought to be involved with homing to intestinal epithelial sites and has been associated with high levels of TGF-beta presence.

Product Details

Verified Reactivity	Mouse
Antibody Type	Monoclonal
Host Species	Rat
Immunogen	Recombinant mouse integrin alphaE/beta7
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 UV395™ 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 ≤ 0.125 µg per million cells in 100 µL volume. It is recommended that the reagent be titrated for optimal performance for each application. * Spark PLUS UV395™ has a maximum excitation of 355 nm and a maximum emission of 385 nm.
Excitation Laser	Ultraviolet Laser (355 nm)
Application Notes	Clone W19396D can partially block binding of clone 2E7 on target cells.

Antigen Details

Structure	125 - 150 kD transmembrane glycoprotein, integrin
Distribution	Lamina propria T cells, regulatory T cells, resident memory T cells, subset of dendritic cells
Function	Adhesion, localization and activation of intestinal lymphocytes, lymphocyte homing
Interaction	Integrin β7

Ligand/Receptor	E-Cadherin
Cell Type	Dendritic cells, Lymphocytes, T cells, Tregs
Biology Area	Cell Adhesion, Immunology
Molecular Family	Adhesion Molecules, CD Molecules

Antigen References

1. Parker CM, *et al.* 1992. *Proc Natl Acad Sci U S A.* 89:1924-8.
2. Kruschwitz M, *et al.* 1991. *J Clin Pathol.* 44:636-45.
3. Schon MP, *et al.* 1999. *J. Immunol.* 162:6641-9.
4. Shaw SK, *et al.* 1994. *J Biol Chem.* 269:6016-25.

Gene ID

[3682](#)

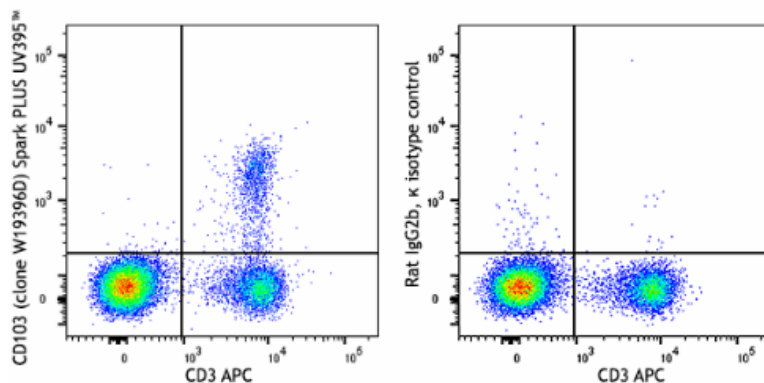
Related Protocols

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

Other Formats

PE/Cyanine7 anti-mouse CD103, FITC anti-mouse CD103, Purified anti-mouse CD103, APC anti-mouse CD103, PE anti-mouse CD103, Spark Blue™ 550 anti-mouse CD103 (Flexi-Fluor™), Spark Blue™ 574 anti-mouse CD103 (Flexi-Fluor™) Antibody, Spark PLUS UV395™ anti-mouse CD103 Antibody

Product Data



C57BL/6 mouse splenocytes were stained with anti-mouse CD3 (clone 17A2) APC and anti-mouse CD103 (clone W19396D) Spark PLUS UV395™ (left) or rat IgG2b, κ Spark PLUS UV395™ isotype control (right).

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