

Purified anti-mouse CD103 Recombinant Antibody

Catalog# / Size	156902 / 500 µg
Clone	QA17A24
Regulatory Status	RUO
Other Names	Integrin αIEL chain, Integrin αE chain, αE integrin, ITGAE
Isotype	Mouse IgG1, κ
Description	CD103 is a type I transmembrane glycoprotein known as αE integrin or Integrin αIEL chain. It belongs to the integrin family and is primarily found on intestinal intraepithelial lymphocytes (IEL). CD103 is also expressed on a subpopulation of lamina propria T cells, epithelial dendritic cells, lamina propria-derived dendritic cells, and a small subset of peripheral lymphocytes. T regulatory cells express high level of CD103. The CD103 expression on lymphocytes can be induced upon activation and TGF-β stimulation. In association with integrin β7, CD103 is expressed as αE/β7 heterodimer. Mature CD103 protein can be cleaved into 2 chains, a 150 kD (C-terminal) chain and a 25 kD (N-terminal) chain, which remain linked by disulfide bonds. CD103 binds to E-cadherin and mediates homing of lymphocytes to the intestinal epithelium.

Product Details

Verified Reactivity	Mouse
Antibody Type	Recombinant
Host Species	Mouse
Immunogen	Mouse intestinal intraepithelial lymphocytes
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Preparation	The antibody was purified by affinity chromatography.
Concentration	0.5 mg/ml
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C.
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 ≤ 0.5 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.
RRID	AB_2810424 (BioLegend Cat. No. 156902)

Antigen Details

Structure	Type I transmembrane glycoprotein, Integrin family, can be cleaved into 150 kD and 25 kD chains, associated with β7 integrin
Function	Retention and activation of CD103+ lymphocytes in the intestinal epithelium, regulate tissue-specific T cell homing.
Interaction	T cells, Dendritic cells, Lymphocytes, Tregs
Ligand/Receptor	E-Cadherin
Cell Type	Dendritic cells, Lymphocytes, T cells, Tregs
Biology Area	Immunology

Molecular Family

Adhesion Molecules, CD Molecules

Antigen References

1. Kilshaw PJ and Murant SJ. 1990. *Eur. J. Immunol.* 20:2201.
2. Karecla PI, *et al.* 1995. *Eur. J. Immunol.* 25:852.
3. LeFrancois L, *et al.* 1994. *Eur. J. Immunol.* 24:635.
4. Sung SS, *et al.* 2006. *J. Immunol.* 176:2161.
5. Johansson-Lindbom B, *et al.* 2005. *J. Exp. Med.* 202:1063.
6. Dujardin HC, *et al.* 2004. *Proc. Natl. Acad. Sci. USA.* 101:14473.

Gene ID

[16407](#)

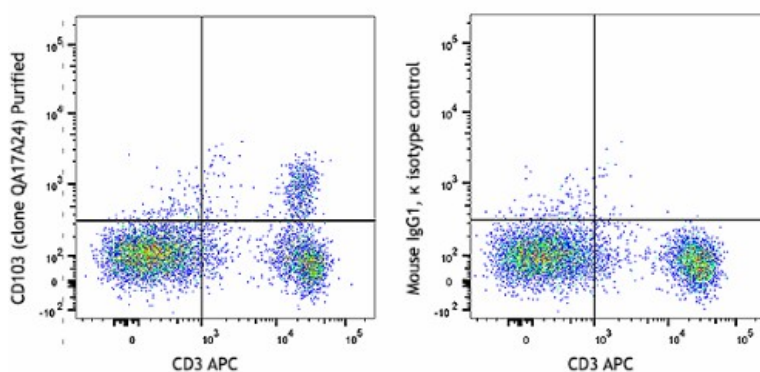
Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

Other Formats

Purified anti-mouse CD103 Recombinant Antibody, PE anti-mouse CD103 Recombinant Antibody, PE/Cyanine7 anti-mouse CD103 Recombinant Antibody, FITC anti-mouse CD103 Recombinant Antibody, PE/Dazzle™ 594 anti-mouse CD103 Recombinant Antibody, PerCP/Cyanine5.5 anti-mouse CD103 Recombinant Antibody, APC anti-mouse CD103 Recombinant Antibody, Brilliant Violet 421™ anti-mouse CD103 Recombinant Antibody, PE/Fire™ 640 anti-mouse CD103 Recombinant Antibody, PE/Fire™ 810 anti-mouse CD103 Recombinant Antibody

Product Data



C57BL/6 Splenocytes were stained with purified anti-mouse CD103 (clone QA17A24) (left) or purified mouse IgG1, κ isotype control (right) followed by FITC rat anti-mouse IgG1 and CD3 APC.

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