Product Data Sheet

Purified anti-mouse CD103

Catalog # / Size: 1207010 / 200 μg

1207005 / 50 µg

Clone: 2E7

Isotype: Hamster IgG

Immunogen: Mouse intestinal intraepithelial

lymphocytes

Reactivity: Mouse

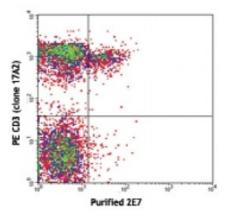
Preparation: The antibody was purified by affinity

chromatography.

Formulation: Phosphate-buffered solution, pH 7.2,

containing 0.09% sodium azide.

Concentration: 0.5



C57BL/6 mouse splenocytes stained with PE CD3 (clone 17A2) and purified 2E7, followed by anti-Armenian hamster IgG FITC

Applications:

Applications: Other

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 ≤ 1.0 microg per million cells in 100 microL volume. It is recommended that the reagent be titrated for optimal performance for each

application.

Application

Additional reported applications (for the relevant formats) include:

Notes: immunoprecipitation1. immunohistochemical staining^{1,7} of acetone-fixed frozen

immunoprecipitation1, immunonistochemical staining="" of acetone-fixed frozen

sections, immunofluorescence2, and in vitro activation1.

Application References:

1. LeFrancois L, et. al, 1994. Eur. J. Immunol. 24:635. (FC, IHC, IP)

2. Mysorekar IU, et. al, 2002. J. Biol. Chem. 277:37811. (FC, IF)

3. Mikami N, et al. 2011. J. Immunol. 186:6886. PubMed

4. del Rio ML, et al. 2011. Transpl. Int. 24:501. (FC) PubMed

5. Quinn KM, et al. 2013. J. Immunol. 191:5085. PubMed

6. Verhagen J and Wraith DC. 2014. J. Immunol. Methods. S0022. (FC) PubMed

7. Xiao B, et al. 2015. PLoS One 1:e0115333. (IHC)

Description: CD103 is a type I transmembrane glycoprotein known as αE integrin or Integrin

 α_{IEL} 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 β_7 , CD103 is expressed as $\alpha E/\beta_7$ 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.

Antigen 1. Kilshaw PJ and SJ. Murant. 1990. Eur. J. Immunol. 20:2201.

References: 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*