

Rat anti-Mouse CD103 Antibody | anti-CD103 antibody

Anti-Mouse CD103 Monoclonal Antibody (PE/Cy5 Conjugated)

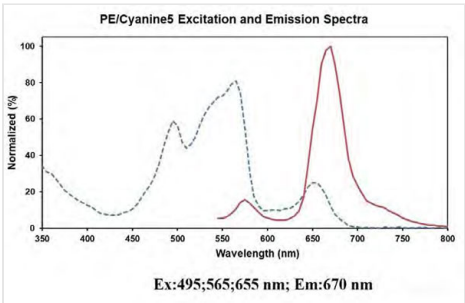
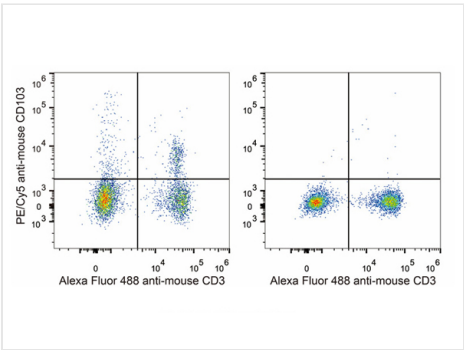
CATALOG # AAA174634	HOST Rat	REACTIVITY Mouse	APPLICATIONS Flow Cytometry, Functional Assay
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PRODUCT SYNONYMS

CD103; Anti-Mouse CD103 Monoclonal Antibody (PE/Cy5 Conjugated); Integrin alpha-E; Itgae; Integrin alpha M290; anti-CD103 antibody

PRODUCT SPECIFICATIONS

Host	Rat
Reactivity	Mouse
Isotype	Rat IgG2a, kappa
Clone Number	M290
Form/Format	Liquid; PBS with 0.05% Proclin300, 1% BSA
Applicable Applications for anti-CD103 antibody	FCM/FACS (Flow Cytometry)
Important Note	Centrifuge before opening to ensure complete recovery of vial contents.
Isotype Control	PE/Cyanine5 Rat IgG2a, kappa Isotype Control[2A3] [Product]
Usage	Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. The amount of the reagent is suggested to be used 5uL of antibody per test (million cells in 100 ul staining volume or per 100ul of whole blood). Please check your vial before the experiment. Since applications vary, the appropriate dilutions must be determined for individual use.
Important Note	Centrifuge before opening to ensure complete recovery of vial contents.
Preparation and Storage	Storage: Keep as concentrated solution. Store at 2~8 degree C and protected from prolonged exposure to light. Do not freeze. This product is guaranteed up to one year from purchase. Shipping: Biological ice pack at 4 degreee C.



Fluorophore
Conjugation: PE/Cyanine5

Application Data
C57BL/6 murine splenocytes are stained with PE/Cyanine5 Anti-Mouse CD103 Antibody (filled gray histogram). Unstained splenocytes (empty black histogram) are used as control.

ADDITIONAL INFORMATION

Related Product Information for anti-CD103 antibody	CD103 is a type I transmembrane glycoprotein known as alphaE integrin or Integrin alphaIEL 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-beta stimulation. In association with integrin beta7, CD103 is expressed as alphaE/beta7 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.
References	1. Kilshaw PJ and SJ. Murant. 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.

NCBI AND UNIPROT INFORMATION

NCBI GI #	226823202
NCBI GeneID	16407
NCBI Accession #	NP_032425.2
NCBI GenBank Nucleotide #	NM_008399.3
UniProt Accession #	Q60677
NCBI Official Full Name	integrin alpha-E isoform 1
NCBI Official Synonym Full Names	integrin alpha E, epithelial-associated
NCBI Official Symbol	Itgae
NCBI Official Synonym Symbols	CD103; aM290; alpha-E1; A530055J10; alpha-M290
NCBI Protein Information	integrin alpha-E
UniProt Protein Name	Integrin alpha-E
UniProt Gene Name	Itgae
UniProt Entry Name	ITAE_MOUSE

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.