

Rat anti-Mouse CD103 Monoclonal Antibody | anti-CD103 antibody

Anti-Mouse CD103 Monoclonal Antibody (Alexa Fluor 647 Conjugated)

CATALOG # AAA174635	HOST Rat	REACTIVITY Mouse	APPLICATIONS Flow Cytometry, Functional Assay
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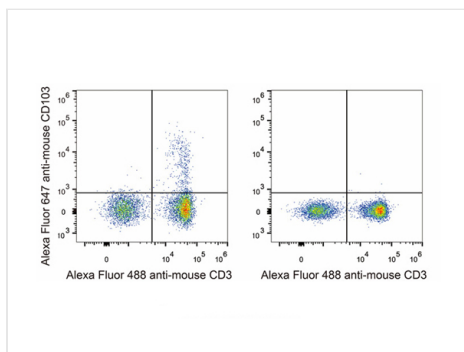
PRODUCT SYNONYMS

CD103; Monoclonal Antibody; Anti-Mouse CD103 Monoclonal Antibody (Alexa Fluor 647 Conjugated); Integrin alpha-E; Itgae; Integrin alpha M290; anti-CD103 antibody

PRODUCT SPECIFICATIONS

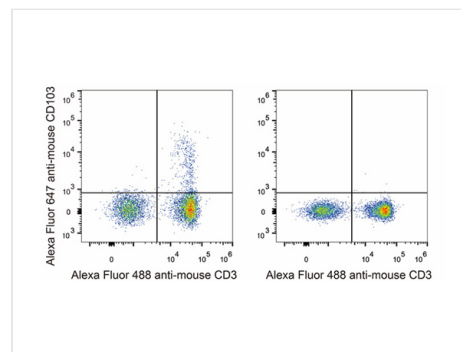
Host	Rat
Reactivity	Mouse
Clonality	Monoclonal
Isotype	IgG2a
Clone Number	M290
Form/Format	Liquid; PBS with 0.05% Proclin300, 1% BSA
Sequence Length	1167
Applicable Applications for anti-CD103 antibody	FCM/FACS (Flow Cytometry)
Conjugation	Alexa Fluor 647
Preparation and Storage	Store at 2-8 degree C and protected from prolonged exposure to light. Do not freeze.

IMAGES



FCM/FACS (Flow Cytometry)

C57BL/6 murine splenocytes are stained with Anti-Mouse CD103 Monoclonal Antibody(Alexa Fluor 647 Conjugated)(left). Splenocytes stained with Anti-Mouse CD3 Monoclonal Antibody(Alexa Fluor 488 Conjugated)(right) are used as control.



FCM/FACS (Flow Cytometry)

Flow cytometry antibody

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.