

CD103 Monoclonal Antibody (AX.14), FITC

Catalog Number MA1-12190

Product data sheet

Details		Species Reactivity	
Size	100 Tests	Species reactivity	Human
Host/Isotope	Mouse / IgG1	Tested Applications Dilution *	
Class	Monoclonal	Flow Cytometry (Flow)	Assay-dependent
Type	Antibody	* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	
Clone	AX.14		
Immunogen	White blood cells.		
Conjugate	FITC		
Form	Liquid		
Purification	Protein A/G		
Storage buffer	PBS with 0.2% carrier protein		
Contains	0.08% sodium azide		
Storage Conditions	4° C, store in dark, DO NOT FREEZE!		

Background/Target Information

CD103 (ITGAE, Integrin alpha E) is molecule that is expressed on mucosa-associated T lymphocytes and activated cells and on subset of TGF beta -1 cells. In particular, CD103 includes a 150kDa alpha chain and a 120kDa beta chain. CD103 is expressed by 0.5 to 2% of resting lymphocytes in peripheral blood and lymphoid organs. CD103 antibody stains a few bone marrow cells and, rarely, peripheral blood lymphocytes. CD103 is part of the integrin family which are heterodimeric integral membrane proteins composed of an alpha chain and a beta chain. ITGAE encodes an I-domain-containing alpha integrin that undergoes post-translational cleavage in the extracellular domain, yielding disulfide-linked heavy and light chains. In combination with the beta 7 integrin, CD103 protein forms the E-cadherin binding integrin known as the human mucosal lymphocyte-1 antigen. CD103 is preferentially expressed in human intestinal intraepithelial lymphocytes (IEL), and in addition to a role in adhesion, it may serve as an accessory molecule for IEL activation. Diseases associated with CD103 dysfunction include hairy cell leukemia and splenic marginal zone lymphoma.

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