

Product datasheet for **SM1766P**

Integrin alpha E (ITGAE) Mouse Monoclonal Antibody [Clone ID: 2G5.1]

Product data:

Product Type:	Primary Antibodies
Clone Name:	2G5.1
Applications:	FC, IHC, IP
Recommended Dilution:	Flow cytometry: 1/50 - 1/100; use 10 µl of the suggested working dilution to label 5 x 10e5 cells in 100µl. Immunoprecipitation. Immunohistochemistry on frozen sections: 1/50 - 1/100. Recommended positive control tissue: intestine.
Reactivity:	Human, Monkey
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	Human Intestinal lymphocyte. Spleen cells from immunised BALB/c mice were fused with cells of the NS1 mouse myeloma cell line.
Specificity:	This antibody recognises the CD103 cell surface antigen, also known as the alphaE integrin. This reacts with various subsets of intra-epithelial lymphocytes:- 40% of lamina propria T-cells; 30% of mesenteric lymphoblasts and some lymphocytes from other mucosa. It recognises less than 0.1% bone marrow cells and less than 0.7% PBL.
Formulation:	PBS containing 0.09% Sodium Azide and 0.1% Bovine Serum Albumin State: Purified State: Liquid purified IgG
Concentration:	lot specific
Purification:	Affinity chromatography on Protein A
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	integrin subunit alpha E



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Database Link: [Entrez Gene 3682 Human P38570](#)

Background: CD103/Integrin alpha E is a new member of the integrin series of adhesion molecules containing the beta7 subunit. This antigen defines a developmentally important subset of T cells, namely mucosal T cells including all IEL (intraepithelial lymphocytes) and ~20% of lamina propria T cells. Expression of CD103 is more restricted outside these mucosal organs, appearing at lower levels on T cell subsets of the lymph node, dendritic epidermis and periphery. In non-epithelial CD103+ T cells there is a bias toward expression on CD8+ cells. Integrin alpha E is a heterodimer comprising a 150kDa alpha chain and a 120kDa beta chain. Integrin alpha E is expressed by approximately 1% of peripheral blood lymphocytes, activated T lymphocytes and by hairy cell leukaemia cells. The antigen is also expressed by intraepithelial lymphocytes.

Synonyms: Integrin alpha-E, Integrin alpha-IEL, HML-1 antigen, ITGAE