

## Integrin $\alpha$ E $\beta$ 7

CONTACT INFORMATION:	University of Oxford marketed by Ximbio.com
TYPE:	mouse anti human
CLONE NAME:	BP6
PROTEIN:	Integrin alpha E/ $\beta$ 7 (CD103)
PROTEIN WEB:	<a href="https://www.omim.org/entry/604682">https://www.omim.org/entry/604682</a>
ANTIGEN USED:	Hairy cell spleen lysate
FUSION PARTNER:	P3/NS1/1-Ag4.1
ISOTYPE:	IgG1 kappa
SPECIES REACTIVITY:	Human
PREPARATION AND STORAGE:	Aliquot and store at 4C. Do not freeze
COMMERCIALIZED BY:	Ximbio.com
APP RECOMMENDED:	IHC IP

### DESCRIPTION

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Integrins are heterodimeric cell surface receptors composed of alpha and beta subunits, which mediate cell-cell and cell-extracellular matrix attachments. Aberrant integrin expression has been found in many epithelial tumours. Changes in integrin expression have been shown to be important for the growth and early metastatic capacity of melanoma cells. Integrin alpha E/beta7 ( $\alpha$ E/ $\beta$ 7) is a heterodimer comprising a 150kDa alpha E chain and a 120kDa beta 7 chain. The expression of Integrin  $\alpha$ E/ $\beta$ 7 defines a developmentally important subset of T cells, namely mucosal T cells including all intraepithelial lymphocytes and ~20% of lamina propria T cells. Integrin  $\alpha$ E/ $\beta$ 7 is also a selective marker for intestinal intra-epithelial T-cells. BP6 may be used in the diagnosis of enteropathy-associated lymphoma and hairy cell leukaemia.

### PUBLICATION DESCRIBING ANTIBODY CHARACTERIZATION/VALIDATION

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Am J Pathol. 1991 Dec;139(6):1297-301.

HML-1 antigen on mucosa-associated T cells, activated cells, and hairy leukemic cells is a new integrin containing the beta 7 subunit.

Micklem KJ1, Dong Y, Willis A, Pulford KA, Visser L, Dürkop H, Poppema S, Stein H, Mason DY.

PMID: 1750505

<https://www.ncbi.nlm.nih.gov/pubmed/1750505>