

Anti-Integrin beta-7 [FIB27] Standard Size Ab00627-10.0

This chimeric human antibody was made using the variable domain sequences of the original Rat IgG2a format, for improved compatibility with existing reagents, assays and techniques.

Isotype and Format: Human IgG1, Kappa

Clone Number: FIB27

Alternative Name(s) of Target: FIB-27; FIB 27; Fib-27; Fib27; Fib 27; fib27; fib-27; fib 27; Integrin b7; integrin b-7; ITGB7; Gut homing receptor beta subunit

UniProt Accession Number of Target Protein: P26010 (human); P26011 (mice)

Published Application(s): IP, Block, FC

Published Species Reactivity: Human, Mouse

Immunogen: FIB27 was prepared by immunizing rats with TK1 cells.

Specificity: FIB27 binds specifically to both human and mouse integrin beta-7 at epitope region D1 on which is involved in all $\alpha 4\beta 7$ -mediated adhesion events. Does not compete with DAKT32 for binding. FIB27 blocks LS722-induced TK1 cell aggregation (mAb LS722 is an activating anti- $\alpha 4\beta 7$ antibody and induces aggregation via an $\alpha 4\beta 7$ -dependent pathway). Integrin beta-7 is one subunit is a heterodimer which makes up an integrin molecule. In the mouse beta-7 is selectively found on the majority of mature lymphocytes, whereas a small subpopulation of thymocytes and bone marrow cells express beta-7. Beta-7 is also expressed in variable amounts in CD4 T memory cells. Integrin molecules mediate cell-cell and cell-extracellular matrix adhesion and are involved in lymphocyte homing, leukocyte recruitment to inflammatory sites, myogenesis, hemopoiesis, and melanoma metastasis.

Application Notes: FIB27 can be used for FC, IP and can block TK1 cell aggregation and beta-7 integrin-mediated cell adhesion.

Antibody First Published in: Andrew DP, et al. Distinct but overlapping epitopes are involved in $\alpha 4\beta 7$ -mediated adhesion to vascular cell adhesion molecule-1, mucosal addressin-1, fibronectin, and lymphocyte aggregation. J. Immunol. 153:3847 1994 [PMID:7523506](#)

Note on publication: Describes the use of FIB27 in defining functional binding regions of $\alpha 4\beta 7$ integrin by epitope mapping.

Product Form

Size: 200 µg Purified antibody.

Purification:

Protein A affinity purified

Supplied In: PBS with 0.02% Proclin 300.

Storage Recommendation: Store at 4°C for up to 3 months. For longer storage, aliquot and store at -20°C.

Concentration: 1 mg/ml.

Important note – This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.