

Anti-Integrin beta-7 [FIB27] Bulk Size Ab00627-10.3-BT

This antibody was created using our proprietary Fc Silent™ engineered Fc domain containing key point mutations that abrogate binding to Fc gamma receptors.

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, Fc Silent™, 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 DI on which is involved in all a4b7-mediated adhesion events. Does not compete with DAKT32 for binding. FIB27 blocks LS722-induced TK1 cell aggregation (mAb LS722 is an activating anti-a4B7 antibody and induces aggregation via an a4B7-dependent pathway). Integrin beta-7 is one subunit is a heterodimer which makes up an intergin 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 TKI cell aggregation and beta-7 intergrin-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: 1 mg Purified antibody in bulk size.

Purification: Protein A affinity purified

Supplied In: PBS only.

Storage Recommendation: Store at 4°C for up to 3 months. Note, this antibody is provided without added preservatives, it is therefore recommended this antibody be handled under sterile conditions. 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.