

Anti-Integrin beta-7 [FIB27] Bulk Size Ab00627-2.3-BT

Recombinant monoclonal antibody to Integrin beta-7. Manufactured using AbAb's Recombinant Platform with variable regions (i.e. specificity) from the hybridoma FIB27. This antibody was created using our proprietary Fc Silent™ engineered Fc domain containing key point mutations that abrogate binding to Fc gamma receptors.

Isotype and Format: Mouse IgG2a, [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.