



Product Information Sheet

Polyclonal Anti-Integrin $\beta 2$ (Magnetic Bead Conjugate)

Catalogue No. PA1124-M	Immunogen A synthetic peptide mapping at the N-terminal of human Integrin $\beta 2$, different from the related mouse sequence by five amino acids.
Lot No. 08J01	
Ig type: rabbit IgG1	Purification Immunogen affinity purified
Size: 100 μ g/Vial	Contents Each vial contains 1mg/ml Magnetic Bead in PBS, pH 7.2, 0.05mg NaN ₃ .
Specificity Human, rat, mouse. No cross reactivity with other proteins.	Storage Store at 4°C for frequent use.
Recommended application <i>Immunoprecipitation(IP)</i>	Description: This Antagene antibody is immobilized by the covalent reaction of hydrazinonicotinamide-modified antibody with formylbenzamide-modified magnetic beads. It is useful for immunoprecipitation

BACKGROUND

The beta-2 integrin chain gene is designated ITGB2 and the leukocyte antigen has been designated CD18. The 3 alpha integrin chains associated individually with the beta-2 chain as a heterodimer have gene designations of ITGAL, ITGAM, and ITGAX, and leukocyte antigen designations of CD11A, CD11B, and CD11C, respectively. The expression of CD18 was increased in lymphoblastoid cells from persons with Down syndrome, consistent with the location of the gene on chromosome 21¹. The ITGB2 gene spans approximately 40 kb and contains 16 exons and all exon/intron boundaries conform to the GT/AG splicing consensus². Furthermore, ITGB2 was constitutively clustered. Although it was expressed on the cell surface at normal levels and was capable of function following extracellular stimulation, it could not be activated via the "inside-out" signaling pathways³.

REFERENCE

1. Taylor, G. M.; Williams, A.; D'Souza, S. W.; Fergusson, W. D.; Donnai, D.; Fennell, J.; Harris, R. : The expression of CD18 is increased on trisomy 21 (Down syndrome) lymphoblastoid cells. *Clin. Exp. Immun.* 71: 324-328, 1988.
2. Weitzman, J. B.; Wells, C. E.; Wright, A. H.; Clark, P. A.; Law, S. K. A. : The gene organisation of the human beta-2 integrin subunit (CD18). *FEBS Lett.* 294: 97-103, 1991.
3. McDowall, A.; Inwald, D.; Leitinger, B.; Jones, A.; Liesner, R.; Klein, N.; Hogg, N. : A novel form of integrin dysfunction involving beta-1, beta-2, and beta-3 integrins. *J. Clin. Invest.* 111: 51-60, 2003.

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