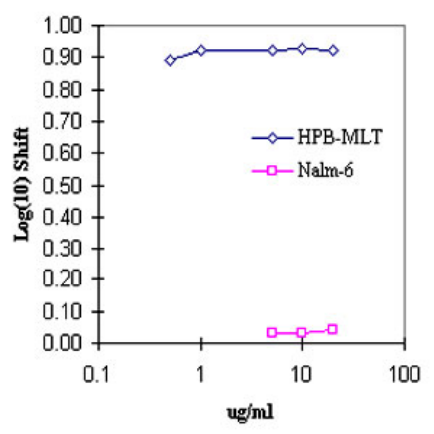
ITGB2 monoclonal antibody, clone IB4

Catalog # MAB6945 Size 100 ug

Applications



Flow Cytometry

5 X 10^5 cultured human HPB-MLT cells per tube were incubated 45 minutes on ice with 80 uL of ITGB2 monoclonal antibody, clone IB4 (Cat # MAB6945) at a concentration of 5 ug/mL. Cells were washed twice and incubated with Goat anti-Mouse IgG/FITC, after which they were washed three times, fixed and analyzed using a BD FACS Calibur. Cells stained positive (67% net) with a mean shift of 0.92 log10 fluorescent units when compared to a Mouse IgG2a negative control at a similar concentration.

Specification

Product Description	Mouse monoclonal antibody raised against native ITGB2.
Immunogen	Native purified ITGB2 from human peripheral blood monocytes.
Host	Mouse
Reactivity	Human
Form	Liquid
Isotype	IgG2a
Recommend Usage	The optimal working dilution should be determined by the end user.
Storage Buffer	In 50 mM sodium phosphate buffer, 100 mM potassium Chloride, 150 mM NaCl, pH 7.5 (0.5 mg/mL gentamicin sulfate)
Storage Instruction	Store at 4°C.

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Applications

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Gene Info — ITGB2

Entrez GeneID	3689
Gene Name	ITGB2
Gene Alias	CD18, LAD, LCAMB, LFA-1, MAC-1, MF17, MFI7
Gene Description	integrin, beta 2 (complement component 3 receptor 3 and 4 subunit)
Omim ID	116920 600065
Gene Ontology	Hyperlink
Gene Summary	The product of this gene belongs to the integrin beta chain family of proteins. Integrins are integral cell-surface proteins composed of an alpha chain and a beta chain. This gene encodes the integrin beta chain beta 2. A given chain may combine with multiple partners resulting in different integrins. For example, beta 2 combines with the alpha L chain to form the integrin LFA-1, and combines with the alpha M chain to form the integrin Mac-1. Integrins are known to participate in cell adhesion as well as cell-surface mediated signalling. Defects in this gene are the cause of leukocyte adhesion deficiency type I (LAD1). Two transcript variants encoding the same protein have been identified for this gene. [provided by RefSeq
Other Designations	CD18 subunit|OTTHUMP00000115278|OTTHUMP00000115279|OTTHUMP00000115281|OTTHUMP00000115282|beta 2 integrin subunit|cell surface adhesion glycoprotein LFA-1/CR3/P150, 959 beta subunit precursor)|complement receptor C3 beta-subunit|integrin beta 2|integrin bet

Publication Reference

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- BIGH3 modulates adhesion and migration of hematopoietic stem and progenitor cells.

  Sofieke E Klamer, Carlijn G M Kuijk, Peter L Hordijk, C Ellen van der Schoot, Marieke von Lindern, Paula B van Hennik, Carlijn Voermans

  Cell Adh Migr 2013 Oct; 7(5):434-49.

  Application: Block

- A crucial role for beta 2 integrin in the activation of eosinophils stimulated by IgG.

  Kaneko M, Horie S, Kato M, Gleich GJ, Kita H.

  Journal of Immunology 1995 Sep; 155(5):2631.

- Leukocyte CD11/CD18 integrins: biological and clinical relevance.

  Mazzone A, Ricevuti G.

  Haematologica 1995 Mar; 80(2):161.

  Application: Flow Cyt, Neutralization, Human, Mouse, B cells, Erythroid cells, Macrophages, Monocytes, Myeloid cells, T cells

- Involvement of the "I" domain of LFA-1 in selective binding to ligands ICAM-1 and ICAM-3.

  Landis RC, McDowall A, Holness CL, Littler AJ, Simmons DL, Hogg N.

  The Journal of Cell Biology 1994 Jul; 126(2):529.

  Application: Func, Human, Human T cells

Pathway

- Cell adhesion molecules (CAMs)
- Leukocyte transendothelial migration
- Natural killer cell mediated cytotoxicity
- Regulation of actin cytoskeleton

Disease

- Asthma
- Atherosclerosis
- Birth Weight
- Brain Ischemia

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- Breast cancer
- Breast Neoplasms
- Bronchiolitis
- Cardiovascular Diseases
- Cerebral Infarction
- Cerebrovascular Accident
- Constriction
- Coronary Disease
- Coronary Restenosis
- Diabetes Mellitus
- Diabetic Retinopathy
- Disease Progression
- Edema
- Enterocolitis
- Genetic Predisposition to Disease
- Glioblastoma
- Glioma
- Glomerulonephritis
- Hirschsprung Disease
- Hypercholesterolemia
- Infant
- Inflammation
- Intracranial Thrombosis
- Kidney Failure
- Leukemia
- Lymphoma

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- Macular Degeneration
- Meningeal Neoplasms
- Meningioma
- Metabolic Syndrome X
- Narcolepsy
- Obesity
- Parkinson disease
- Recurrence
- Renal Insufficiency
- Respiratory Syncytial Virus Infections
- Stroke
- Thyroid Neoplasms
- Werner syndrome

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