

Product datasheet for **BM4033B**

Integrin alpha 5 (ITGA5) Mouse Monoclonal Antibody [Clone ID: X-6]

Product data:

Product Type:	Primary Antibodies
Clone Name:	X-6
Applications:	FC, IHC
Recommended Dilution:	Flow Cytometry: use 10 µl stock solution to label 10e6 cells. Immunohistochemistry on Frozen Sections: 4 µg/ml (1/100). <i>Suggested Positive Control:</i> Human tonsil.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Human Monocytes.
Specificity:	This antibody X-6 is useful for the detection of the Fibronectin Receptor, or CD49e. Detects Human granulocytes, monocytes and platelets. Cross reactivity: unknown. X-6 detects an antigen of 154-180kD by Immunoprecipitation. Antigen distribution on Isolated cells and Tissue sections: Granulocytes, monocytes; positive on blood monocyte-derived macrophages days 0-28. Dull staining with 95% cord blood CD34+ cells, weak reaction on resting neutrophils. Staining increases with maturation of granulocytes. Treatment with fMPL, TNF, GM-CSF and temperature causes positive shift with granulocytes and monocytes. PMA treatment of granulocytes leads to a decrease in the number of positive cells. Positive with cell lines U937, DH39 & MEP, HL-60, NB4, HMC-1. X-6 is positive on lining cells in different infiltrations and endothelial cells in the synovial membrane of RA patients. The staining pattern is similar to CD34 in these patients.
Formulation:	Stock solution contains PBS, pH 7.2 with 0.01% Thiomerosal as preservative and 10 mg/ml BSA as stabilizer. Label: Biotin State: Lyophilized purified Ig fraction.
Reconstitution Method:	Restore with 0.5 ml distilled water
Concentration:	0.4 mg/ml



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Purification:	Affinity Chromatography
Conjugation:	Biotin
Storage:	Store the antibody at 2-8°C for one month or (in aliquots) at -20°C for longer. Do not freeze working dilutions Avoid repeated freezing and thawing.
Stability:	Shelf life: One year from despatch.
Gene Name:	integrin subunit alpha 5
Database Link:	Entrez Gene 3678 Human P08648
Background:	The X-6 antibody is useful for the detection of the fibronectin receptor, or CD49e. CD49e is a component of an adhesion receptor heterodimer ($\alpha 5\beta 1$) to fibronectin and invasin. $\alpha 5\beta 1$ recognizes an Arg-Gly-Asp sequence in fibronectin. Binding of fibronectin through $\alpha 5\beta 1$ is important for cell survival and induces apoptosis, particularly in hemopoietic cells.
Synonyms:	Integrin alpha-5, Fibronectin receptor subunit alpha, Integrin alpha-F, VLA-5, VLA5, FNRA