

Product datasheet for **BM4033**

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: Suitable for Immunohistochemistry on frozen sections (2 µg/ml (1:100) and FACS (use 10 µl stock solution to label 10e6 cells).

Reactivity: Human

Host: Mouse

Isotype: IgG1

Clonality: Monoclonal

Immunogen: Human monocytes.

Specificity: Detects human granulocytes, monocytes and platelets.
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 increase with maturation of granulocytes. Treatment with fMLP, TNF, GM-CSF and temperature causes positive shift with granulocytes and monocytes. PMA treatment of granulocytes leads to decrease in no. of positive cells.

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: PBS, pH 7.2 containing 10 mg/ml bovine serum albumin (BSA) as a stabilizer and 0.01% Thimerosal as a preservative.

State: Purified

State: Lyophilized purified Ig fraction

Reconstitution Method: Restore with 0.5 ml distilled water.

Concentration: 0.2 mg/ml

Purification: Affinity chromatography.

Conjugation: Unconjugated



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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
Note:	Protocol: Protocol with frozen, ice-cold acetone-fixed sections: The whole procedure is performed at room temperature <ol style="list-style-type: none">1. Wash in PBS2. Block endogenous peroxidase3. Wash in PBS4. Block with 10% normal goat serum in PBS for 30min. in a humid chamber5. Incubate with primary antibody (dilution see datasheet) for 1h in a humid chamber6. Wash in PBS7. Incubate with secondary antibody (peroxidase-conjugated goat anti mouse IgG+IgM (H+L) minimal-cross reaction to human) for 1h in a humid chamber8. Wash in PBS9. Incubate with AEC substrate (3-amino-9-ethylcarbazol) for 12min.10. Wash in PBS11. Counterstain with Mayer's hemalum.