

BM6025P

Monoclonal Antibody to CD49c / ITGA3 (3B Isoform specific) - Purified

Alternate names:	CD49 antigen-like family member C, FRP-2, GAPB3, Galactoprotein B3, ITGA-3, ITGAG3, Integrin alpha-3, MSK18, VLA-3 alpha chain, VLA3
Quantity:	0.1 mg
Concentration:	1.0 mg/ml
Background:	Integrins are a family of heterodimeric membrane glycoproteins consisting of non-covalently associated α and β subunits. More than 18 α and 8 β subunits with numerous splice variant isoforms have been identified in mammals. In general, integrins function as receptors for extracellular matrix proteins. Certain integrins can also bind to soluble ligands or to counter-receptors on adjacent cells, such as the intracellular adhesion molecules (ICAMs), resulting in aggregation of cells. Signals transduced by integrins play a role in many biological processes, including cell growth, differentiation, migration and apoptosis. For integrin subunits $\alpha 3$ and $\alpha 6$, two cytoplasmic variants, A and B, have been identified.
Uniprot ID:	P26006
NCBI:	NP_002195
GeneID:	3675
Host / Isotype:	Mouse / IgG1
Recommended Isotype Controls:	SM10P (for use in human samples), AM03095PU-N
Clone:	54B3
Immunogen:	Synthetic peptide corresponding to a 32 amino acid stretch in the cytoplasmic domain of integrin $\alpha 3B$ including an appending N-terminal cysteine coupled to keyhole limpet hemocyanin. AA Sequence: CTRYQIMPKYHAVRIREEERYPPPGSTLPTKK
Format:	State: Liquid purified IgG fraction Buffer System: PBS Preservatives: 0.09% Sodium Azide
Applications:	Immunoblotting: 1/100-1/1000. Immunocytochemistry. Immunohistochemistry on Frozen Sections: 1/25-1/200, with avidin-biotinylated horseradish peroxidase complex (ABC) as detection reagent. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Specificity:	54B3 recognizes specifically the cytoplasmic domain of integrin subunit $\alpha 3$ B which is present in microvascular structures in brain and heart. Species: Human. Other species not tested.
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.
General Readings:	1. de Melker AA, Sterk LM, Delwel GO, Fles DL, Daams H, Weening JJ, et al. The A and B variants of the alpha 3 integrin subunit: tissue distribution and functional characterization. Lab Invest. 1997 Apr;76(4):547-63. PubMed PMID: 9111516.