

ITGB1

Mouse Anti-Human Integrin beta-1 / CD29 (Clone BV7) mAb

Catalog No.	MON2031	Quantity:	1.0 mL
Alternate Names:	Integrin beta-1, Fibronectin receptor subunit beta, Glycoprotein IIa, GPIIA, VLA-4 subunit beta, CD29		
Description:	Integrin beta-1 is a ubiquitously expressed ~89 kDa type I transmembrane protein functioning as receptor when heterodimerized with one alpha subunit. It belongs to the integrin beta chain family consisting of four different genes, encoding multiple β integrins via alternative splicing. Ligand-recognition depends on the composition of the heterodimer: either collagen, fibronectin, VCAM1, laminin, cytotactin, osteopontin, epiligrin, thrombospondin and CSPG4 can bind to the integrin-complex. Beta-1 integrins recognize the sequence R-G-D in a wide array of ligands. Isoform beta-1B interferes with isoform beta-1A resulting in a dominant negative effect on cell adhesion and migration (in vitro).		
Concentration:	0.1 mg/ml		
UniProt ID:	P05556		
Specificity:	Human Integrin beta-1 Does not recognize $\alpha 5\beta 1$ complex and not the cytoplasmic part of the $\beta 1$ -subunit.		
Host:	Mouse		
Immunogen:	Human umbilical vein EC		
Isotype:	IgG1		
Clone:	BV7		
Formulation:	Purified antibody in PBS containing 0.1% BSA		
Applications:	FC, IHC, IP, WB		
Application Notes:	BV7 binds to several tumor cells (MG3 osteosarcoma, A375 melanoma, MHCC-1410 and Lovo colon carcinoma) but does not affect adhesion to endothelial cells.		
Storage & Stability:	Store at 2-8°C for up to 1 year.		

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