



## MOUSE ANTI-HUMAN INTEGRIN beta1 (ACTIVATING) FLUORESCIEIN-CONJUGATED MONOCLONAL ANTIBODY

<b>CATALOG NUMBER:</b>	MAB1951F	<b>QUANTITY:</b>	100 µg
<b>LOT NUMBER:</b>		<b>CONCENTRATION:</b>	1 mg/mL
<b>ALTERNATE NAMES:</b>	CD29		
<b>CLONE NAME:</b>	P4G11	<b>HOST/ISOTYPE:</b>	Ms IgG1
<b>SPECIFICITY:</b>	P4G11, reacts with calcium-dependent epitopes on the integrin β1 subunit. When bound to β1, P4G11, activates β1 dependent binding to extra cellular matrix substrates.		
<b>IMMUNOGEN:</b>	Human IL-1beta activated endothelial cells		
<b>APPLICATIONS:</b>	FACS: MAB1951F has been designed primarily for FACS analysis on live or lightly paraformaldehyde cells. Ca++ must be present in all solutions to maintain antibody contact with the antigen. Typical dilution is 1:100 for 1 x10(6) cells. Washes using complete PBS (containing Ca++ and Mg++) and 1% BSA are recommended.  Optimal working dilutions must be determined by end user.		
<b>SPECIES REACTIVITY:</b>	Reacts with Human, Rabbit and Monkey. Reactivity with other species has not been determined.		
<b>PRESENTATION:</b>	Protein A purified immunoglobulin conjugated to FITC in in 0.02M PBS, 0.25M NaCl, pH 7.6, with 0.1% NaN3.		
<b>STORAGE/HANDLING:</b>	Maintain between 2 and 8°C for up to 6 months from date of receipt. Avoid freeze thaws. Keep away from light.		
<b>REFERENCES:</b>	Thirkill, TL et al. (2004). Regulation of trophoblast beta1-integrin expression by contact with endothelial cells. <i>Cell Comm and Signaling</i> 2(1):4.  Joy, AM et al. (2003). Migrating glioma cells activate the PI3-K pathway and display decreased susceptibility to apoptosis . <i>J Cell Sci</i> 116:4409-4417.  Terauchi, M et al. (2003). Placental Extravillous Cytotrophoblasts Persistently Express Class I Major Histocompatibility Complex Molecules after Human Cytomegalovirus Infection . <i>J Virology</i> 77(15):8187-8195.  Qin, L et al. (2003). Temporal and spatial expression of intergrins and their extracellular matrix ligands at the maternal-fetal interface in the Rhesus monkey during pregnancy. <i>Biol Reprod</i> 69:563-571.  Wattam, B. et.al. (2001). Arg-Tyr-Arg (RYD) and Arg-Cys-Asp (RCD) motifs in dendroaspin promote selective inhibition of beta 1 and beta 3 integrins. <i>Biochem. J.</i> 356:11-17.  Li, Bing-Sheng, et al (2000). Integrin alpha1beta1-Mediated Activation of Cyclin-Dependent Kinase 5 Activity Is Involved in Neurite Outgrowth and Human Neurofilament Protein H Lys-Ser-Pro Tail Domain Phosphorylation . <i>J Neurosci</i> 20(16):6055-6062.		



Shalan, TA et al. (1999). Identification of CD47/Integrin-associated Protein and alphavbeta3 as Two Receptors for the alpha3(IV) Chain of Type IV Collagen on Tumor Cells. *Can Res* 59:4584-4590.

De La Porte, S. et al. (1998). Accumulation of acetylcholine receptors is a necessary condition for normal accumulation of acetylcholinesterase during in vitro neuromuscular synaptogenesis.. *Eur. J. of Neuroscience* 10(5):1631-1643.

Wayner, EA et al. (1993). Epiligrin, a component of epithelial basement membranes, is an adhesive ligand for alpha 3 beta 1 positive T lymphocytes.. *J. Cell Biology* 121(5):1141-1152.

**Important Note:** *During shipment, small volumes of product will occasionally become entrapped in the seal of the product vial. For products with volumes of 200  $\mu$ L or less, we recommend gently tapping the vial on a hard surface or briefly centrifuging the vial in a tabletop centrifuge to dislodge any liquid in the container's cap.*

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