

BM6024P**Monoclonal Antibody to CD49c / CD49f (B Isoform specific) - Purified**

Alternate names:	Integrin alpha 3B / Integrin alpha 6B
Quantity:	0.1 mg
Concentration:	1.0 mg/ml
Background:	<p>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.</p> <p>For integrin subunits $\alpha 3$ and $\alpha 6$, two cytoplasmic variants, A and B, have been identified.</p>
Host / Isotype:	Mouse / IgG1
Recommended Isotype Controls:	SM10P (for use in human samples), AM03095PU-N
Clone:	PB36
Immunogen:	<p>PB36 is a mouse monoclonal IgG1, κ antibody derived by fusion of SP2/0 mouse myeloma cells with spleen cells from a BALB/c mouse immunized with a 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.</p> <p>AA Sequence: CTRY YQ I M P K Y H A V R I R E E E R Y P P P G S T L P T K K</p>
Format:	<p>State: Liquid purified IgG fraction.</p> <p>Buffer System: PBS with 0.09% Sodium Azide as preservative.</p>
Applications:	<p>Suitable for Immunoblotting, Immunocytochemistry, Immunohistochemistry on frozen tissues.</p> <p>Recommended Dilutions: 1/50-1/100 for Immunohistochemistry with avidin-biotinylated horseradish peroxidase complex (ABC) as detection reagent, and 1/100-1/500 for Immunoblotting applications.</p> <p>Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.</p>
Specificity:	<p>This antibody recognizes the cytoplasmic domain of integrin subunits $\alpha 3B$ and $\alpha 6B$. PB36 reacts with the basement membrane zone and endothelial cells in skin, tubuli in kidney and all vascular and capillary endothelia in brain and heart.</p> <p>A broad species reactivity is expected because of the conserved nature of the epitope.</p>

- Species Reactivity:** **Tested:** Human.
Expected from sequence similarity: A broad species reactivity is expected because of the conserved nature of the epitope.
- Storage:** Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.
Avoid repeated freeze-thaw cycles.
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.
- Pictures:** Immunohistochemistry on frozen section of Human kidney

