

## Product datasheet for **BM6025P**

### Integrin alpha 3 (ITGA3) (3B Isoform specific) Mouse Monoclonal Antibody [Clone ID: 54B3]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	54B3
Applications:	IF, IHC, WB
Recommended Dilution:	<b>Immunoblotting:</b> 1/100-1/1000. <b>Immunocytochemistry.</b> <b>Immunohistochemistry on Frozen Sections:</b> 1/25-1/200, with avidin-biotinylated horseradish peroxidase complex (ABC) as detection reagent.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
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.
Specificity:	54B3 recognizes specifically the cytoplasmic domain of integrin subunit $\alpha$ 3B which is present in microvascular structures in brain and heart.
Formulation:	PBS State: Purified State: Liquid purified IgG fraction Preservative: 0.09% Sodium Azide
Concentration:	lot specific
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	integrin subunit alpha 3
Database Link:	<a href="#">Entrez Gene 3675 Human P26006</a>



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<b>Background:</b>	Integrins are a family of heterodimeric membrane glycoproteins consisting of non-covalently associated $\alpha$ and $\beta$ subunits. More than 18 $\alpha$ and 8 $\beta$ 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.
<b>Synonyms:</b>	Integrin alpha-3, ITGA-3, ITGAG3, MSK18, Galactoprotein B3, GAPB3, VLA-3 alpha chain, VLA3, FRP-2
<b>Protein Families:</b>	Druggable Genome, Transmembrane
<b>Protein Pathways:</b>	Arrhythmogenic right ventricular cardiomyopathy (ARVC), Dilated cardiomyopathy, ECM-receptor interaction, Focal adhesion, Hematopoietic cell lineage, Hypertrophic cardiomyopathy (HCM), Pathways in cancer, Regulation of actin cytoskeleton, Small cell lung cancer