

## Product datasheet for **BM6022P**

### Integrin alpha 3 (ITGA3) (3A Isoform specific) Mouse Monoclonal Antibody [Clone ID: 29A3]

#### Product data:

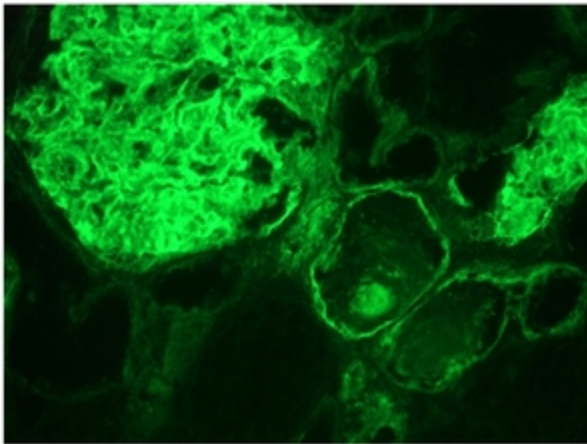
Product Type:	Primary Antibodies
Clone Name:	29A3
Applications:	IF, IHC, WB
Recommended Dilution:	<b>Immunoblotting.</b> <b>Immunocytochemistry.</b> <b>Immunohistochemistry on Frozen Sections.</b> <i>Recommended Dilutions:</i> 1/100-1/200 for Immunohistochemistry with avidin-biotinylated horseradish peroxidase complex (ABC) as detection reagent, and 1/100-1/1000 for Immunoblotting applications.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	29A3 is a Mouse monoclonal IgG1, k 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 the cytoplasmic domain of the integrin subunit $\alpha$ 3A including an additional N-terminal cysteine coupled to KLH.
Specificity:	29A3 recognizes specifically the cytoplasmic domain of integrin subunit $\alpha$ 3A which is present in the basal cell layer in skin, glomeruli, Bowman's capsules and distal tubuli in kidney, all vascular and capillary endothelia in brain, heart and skin, and vascular smooth muscle cells in heart. A broad species reactivity is expected because of the conserved nature of the epitope.
Formulation:	PBS State: Purified State: Liquid purified IgG fraction. Preservative: 0.09% Sodium Azide
Concentration:	lot specific
Conjugation:	Unconjugated



[View online »](#)

<b>Storage:</b>	Store the antibody (undiluted) at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freeze-thaw cycles.
<b>Stability:</b>	Shelf life: One year from despatch.
<b>Gene Name:</b>	integrin subunit alpha 3
<b>Database Link:</b>	<a href="#">Entrez Gene 3675 Human P26006</a>
<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

### Product images:



Immunohistochemistry on frozen section of Human kidney.