

Product datasheet for **AM10070SU-N**

CD61 (ITGB3) Mouse Monoclonal Antibody [Clone ID: 2F2]

Product data:

Product Type:	Primary Antibodies
Clone Name:	2F2
Applications:	IHC
Recommended Dilution:	Immunohistochemistry on Formalin-Fixed, Paraffin-Embedded Sections: 1/25-1/100 Pretreatment of deparaffinized tissue with heat-induced epitope retrieval is recommended. Use Polymer anti Mouse/Rabbit IgG as a detection system. <i>Positive Control:</i> Bone marrow or tonsil.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Recombinant protein encoding part of the external domain of Human CD61
Specificity:	Clone 2f2 will prove useful in detecting neoplastic platelet precursors, normal platelets and most cases of megakaryocytic leukemia. Cellular Localization: Cell membrane/cytoplasmic.
Formulation:	State: Supernatant State: Tissue Culture Supernatant with 0.2% BSA and 15mM Sodium Azide.
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C.
Stability:	Shelf life: one year from despatch.
Gene Name:	integrin subunit beta 3
Database Link:	Entrez Gene 3690 Human P05106



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Background:

CD61 also known as gpIIIa, the common beta subunit (integrin beta3-chain) of the gpIIb/IIIa complex and the vitronectin receptor (VNR). The gpIIb/IIIa complex and the VNR are integrins, ie, α/β -heterodimeric glycoprotein complexes that are involved in cell adhesion. With the CD41 antigen (gpIIb or allb), the CD61 antigen forms the gpIIb/IIIa complex, which acts as a receptor for fibrinogen, von Willebrand factor (vWf), fibronectin and vitronectin on activated platelets. With the CD51 antigen (VNR α -chain or av), the CD61 antigen forms the VNR, which mediates activation-independent cell adhesion to vitronectin, vWf, fibrinogen, and thrombospondin.

CD61 (GPIIIa) is a glycoprotein found on megakaryocytes, platelets and their precursors. CD61 antigen plays a role in platelet aggregation and also as a receptor for fibrinogen, fibronectin, von Willebrand factor and vitronectin.

Synonyms:

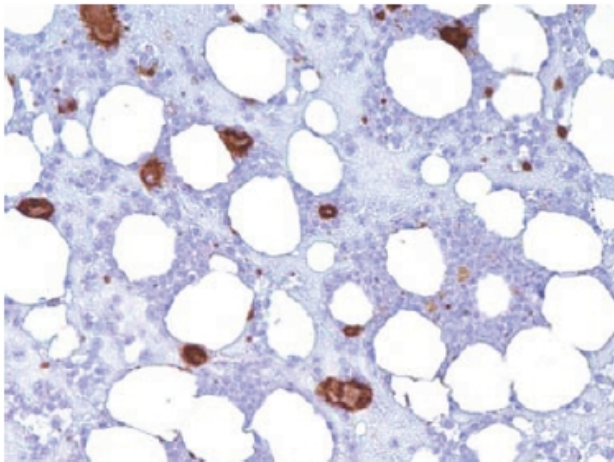
Integrin beta-3, GP3A, GPIIIa

Protein Families:

Druggable Genome, ES Cell Differentiation/IPS, Transmembrane

Protein Pathways:

Arrhythmogenic right ventricular cardiomyopathy (ARVC), Dilated cardiomyopathy, ECM-receptor interaction, Focal adhesion, Hematopoietic cell lineage, Hypertrophic cardiomyopathy (HCM), Regulation of actin cytoskeleton

Product images:

Formalin-Fixed, Paraffin-Embedded Human bone marrow stained with CD61 antibody Cat.-No. AM10070SU-N using peroxidase conjugate and DAB chromogen. Note the cytoplasmic staining of megakaryocytes.