

## Product datasheet for **AM32082PU-N**

### CD61 (ITGB3) Mouse Monoclonal Antibody [Clone ID: BB10]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	BB10
Applications:	ELISA, IHC, WB
Recommended Dilution:	<b>Western blotting:</b> 1/1000. <b>Immunohistochemical on Frozen Sections.</b> <b>Other Immunoassays for cellular and tumor biology.</b>
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Partially purified platelet glycoprotein IIb/IIIa complex
Specificity:	The antibody clone <i>BB10</i> reacts with beta-3 integrin including the GPIIIa of platelets.
Formulation:	PBS State: Ig Fraction State: Liquid Ig fraction Stabilizer: 1.0% BSA Preservative: 0.09% Sodium Azide
Concentration:	lot specific
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:	<a href="#">Entrez Gene 3690 Human P05106</a>



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**Background:**

CD61 also known as gpIIIa, the common  $\beta$ subunit (integrin  $\beta$ 3-chain) of the gpIIb/IIIa complex and the vitronectin receptor (VNR). The gpIIb/IIIa complex and the VNR are integrins, ie,  $\alpha$ / $\beta$ -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  $\alpha$ -chain or  $\alpha$ v), the CD61 antigen forms the VNR, which mediates activation-independent cell adhesion to vitronectin, vWf, fibrinogen, and thrombospondin. The CD61 antigen is found on all normal resting and activated platelets. The CD61 antigen is also found on endothelial cells, megakaryocytes, on some myeloid, erythroid and T-lymphoid leukemic cell lines.

Beta-3 Integrins contain receptors for vitronectin, fibrinogen, and Von Willebrands factor and, in some instances fibronectin. The allb-Integrin subunit is a specific marker for platelets and megakaryocytes and can be utilized for this purpose in various immunological techniques. Monoclonal antibodies against the beta-3 Integrin subunits and the allb-Integrin subunit can be used in Immunoblotting, Immunoprecipitation and Immunostaining experiments.

**Synonyms:**

Integrin beta-3, GP3A, GPIIIa