

## Product datasheet for **AP06182PU-N**

### CD61 (ITGB3) Rabbit Polyclonal Antibody

#### Product data:

|                         |  |
|-------------------------|--|
| Product Type:           | Primary Antibodies   |
| Applications:           | ELISA, IHC   |
| Recommended Dilution:   | <b>Western blot:</b> 1/500-1/1000.<br><b>Immunohistochemistry on paraffin sections:</b> 1/50-1/200.  |
| Reactivity:             | Human, Mouse   |
| Host:                   | Rabbit   |
| Clonality:              | Polyclonal   |
| Immunogen:              | Synthetic peptide, corresponding to amino acids 741-790 of Human Integrin $\beta$ 3.   |
| Specificity:            | This antibody detects endogenous levels of Integrin beta3 protein.<br>(region surrounding Thr767)  |
| Formulation:            | Phosphate buffered saline (PBS), pH 7.2.<br>State: Aff - Purified<br>State: Liquid purified Ig fraction<br>Preservative: 15 mM sodium azide                |
| Concentration:          | 1.0 mg/ml  |
| Purification:           | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE) |
| Conjugation:            | Unconjugated   |
| Storage:                | Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.<br>Avoid repeated freezing and thawing.                                       |
| Stability:              | Shelf life: one year from despatch.  |
| Predicted Protein Size: | ~ 97,110,130 kDa   |
| Gene Name:              | integrin subunit beta 3  |
| Database Link:          | <a href="#">Entrez Gene 16416 Mouse</a> <a href="#">Entrez Gene 3690 Human</a><br><a href="#">P05106</a>   |



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**Background:**

Integrins are heterodimers composed of noncovalently associated transmembrane alpha and beta subunits. The 16alpha and 8beta subunits heterodimerize to produce more than 20 different receptors. Most Integrin receptors bind ligands that are components of the extracellular matrix, including Fibronectin, Collagen and Vitronectin. Certain Integrins can also bind to soluble ligands such as Fibrinogen, or to counterreceptors on adjacent cells such as the intracellular adhesion molecules (ICAMs), leading to aggregation of cells. Ligands serve to cross-link or cluster Integrins by binding to adjacent Integrin receptors; both receptor clustering and ligand occupancy are necessary for the activation of Integrin-mediated responses. In addition to mediating cell adhesion and cytoskeletal organization, Integrins function as signaling receptors. Signals transduced by Integrins play a role in many biological processes, including cell growth, differentiation, migration and apoptosis.

**Synonyms:**

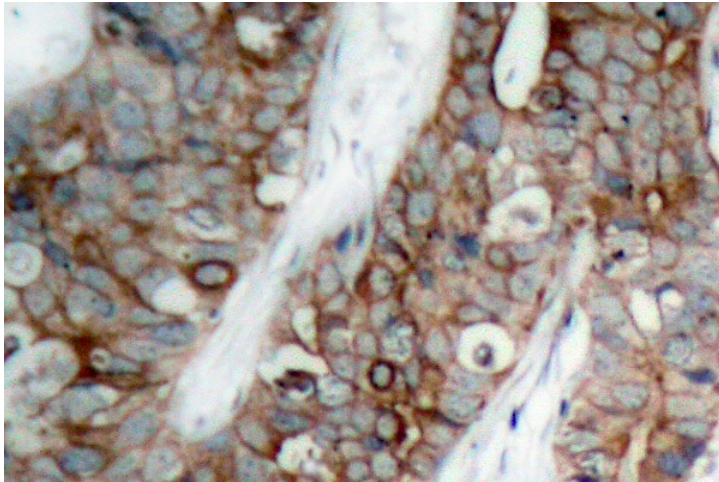
Integrin beta-3, GP3A, GPIIIa

**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:**

Immunohistochemistry (IHC) analyzes of Integrin  $\beta$ 3 antibody in paraffin-embedded human skeletal muscle tissue.