

## Product datasheet for **AP06183PU-M**

### Integrin beta 5 (ITGB5) Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, WB
Recommended Dilution:	<b>Western blot:</b> 1/500-1/1000.
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Synthetic peptide, corresponding to amino acids 720-770 of Human Integrin $\beta$ 5.
Specificity:	This antibody detects endogenous levels of Integrin beta5 protein. (region surrounding Val746)
Formulation:	Phosphate buffered saline (PBS), pH 7.2. State: Aff - Purified State: Liquid purified Ig fraction Preservative: 0.05% sodium azide
Concentration:	1.0 mg/ml
Purification:	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. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	~ 88 kDa
Gene Name:	integrin subunit beta 5
Database Link:	<a href="#">Entrez Gene 16419 Mouse</a> <a href="#">Entrez Gene 257645 Rat</a> <a href="#">Entrez Gene 3693 Human P18084</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:**

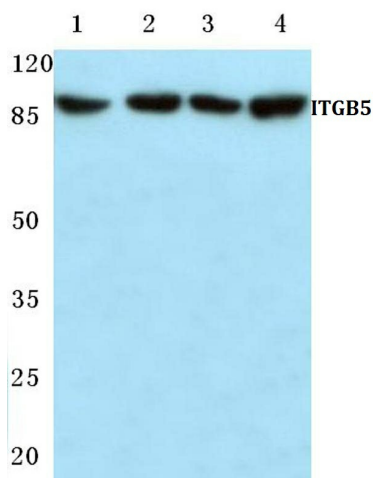
ITGB-5

**Protein Families:**

Druggable Genome, Transmembrane

**Protein Pathways:**

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

**Product images:**


Western blot (WB) analysis of Integrin  $\beta$ 5 antibody at 1/500 dilution Lane 1:HeLa whole cell lysate Lane 2:HEK293T whole cell lysate Lane 3:Raw264.7 whole cell lysate Lane 4:Rat kidney tissue lysate