

## Integrin $\beta$ 3 (phospho Tyr785) Polyclonal Antibody

<b>Catalog No :</b>	YP0524
<b>Reactivity :</b>	Human;Mouse;Rat
<b>Applications :</b>	IF;ELISA;IHC
<b>Target :</b>	Integrin $\beta$ 3
<b>Fields :</b>	>>Rap1 signaling pathway;>>Phagosome;>>PI3K-Akt signaling pathway;>>Osteoclast differentiation;>>Focal adhesion;>>ECM-receptor interaction;>>Platelet activation;>>Neutrophil extracellular trap formation;>>Hematopoietic cell lineage;>>Regulation of actin cytoskeleton;>>Thyroid hormone signaling pathway;>>Human cytomegalovirus infection;>>Human papillomavirus infection;>>Herpes simplex virus 1 infection;>>Proteoglycans in cancer;>>MicroRNAs in cancer;>>Hypertrophic cardiomyopathy;>>Arrhythmogenic right ventricular cardiomyopathy;>>Dilated cardiomyopathy;>>Fluid shear stress and atherosclerosis
<b>Gene Name :</b>	ITGB3
<b>Protein Name :</b>	Integrin beta-3
<b>Human Gene Id :</b>	3690
<b>Human Swiss Prot No :</b>	P05106
<b>Mouse Gene Id :</b>	16416
<b>Mouse Swiss Prot No :</b>	O54890
<b>Immunogen :</b>	The antiserum was produced against synthesized peptide derived from human Integrin beta3 around the phosphorylation site of Tyr785. AA range:739-788
<b>Specificity :</b>	Phospho-Integrin $\beta$ 3 (Y785) Polyclonal Antibody detects endogenous levels of Integrin $\beta$ 3 protein only when phosphorylated at Y785.
<b>Formulation :</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source :</b>	Polyclonal, Rabbit,IgG

**Dilution :** IF ICC 1:50-300; ELISA 1:2000-20000; IHC 1:50-200

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**Purification :** The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.

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**Concentration :** 1 mg/ml

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**Storage Stability :** -15°C to -25°C/1 year(Do not lower than -25°C)

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**Observed Band :** 87kD

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**Cell Pathway :** Focal adhesion;ECM-receptor interaction;Hematopoietic cell lineage;Regulates Actin and Cytoskeleton;Hypertrophic cardiomyopathy (HCM);Arrhythmogenic right ventricular cardiomyopathy (ARVC);Dilated car

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**Background :** The ITGB3 protein product is the integrin beta chain beta 3. Integrins are integral cell-surface proteins composed of an alpha chain and a beta chain. A given chain may combine with multiple partners resulting in different integrins. Integrin beta 3 is found along with the alpha IIb chain in platelets. Integrins are known to participate in cell adhesion as well as cell-surface mediated signalling. [provided by RefSeq, Jul 2008],

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**Function :** disease:Defects in ITGB3 are a cause of Glanzmann thrombasthenia (GT) [MIM:273800]; also known as thrombasthenia of Glanzmann and Naegeli. GT is the most common inherited disease of platelets. Its inheritance is autosomal recessive. It is characterized by mucocutaneous bleeding of mild-to-moderate severity and the inability of this integrin to recognize macromolecular or synthetic peptide ligands. GT has been classified clinically into types I and II. In type I, platelets show absence of the glycoprotein IIb-IIIa complexes at their surface and lack fibrinogen and clot retraction capability. In type II, the platelets express the GPIIb-IIIa complex at reduced levels (5-20% controls), have detectable amounts of fibrinogen, and have low or moderate clot retraction capability. The platelets of GT variants have normal or near normal (60-100%) expression of dysfunctional receptors.,function:Int

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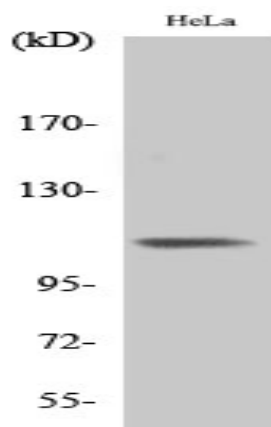
**Subcellular Location :** Cell membrane ; Single-pass type I membrane protein . Cell projection, lamellipodium membrane . Cell junction, focal adhesion . Cell junction, synapse, postsynaptic cell membrane ; Single-pass type I membrane protein . Cell junction, synapse .

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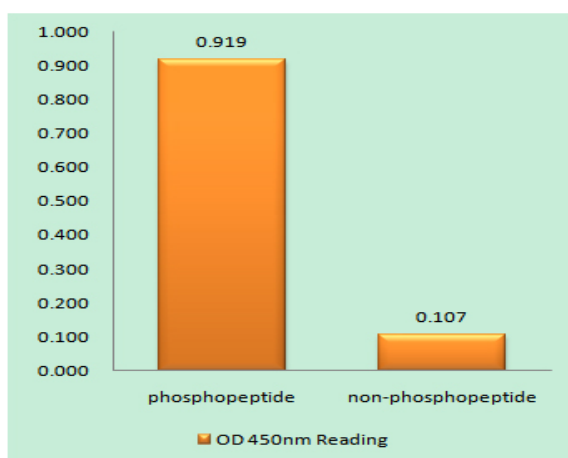
**Expression :** Isoform beta-3A and isoform beta-3C are widely expressed. Isoform beta-3A is specifically expressed in osteoblast cells; isoform beta-3C is specifically expressed in prostate and testis.

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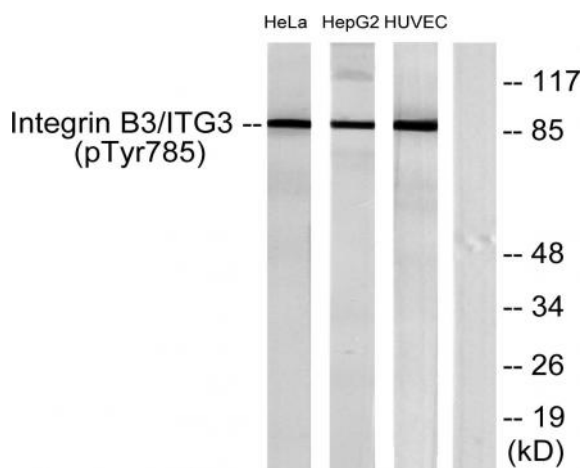
## Products Images



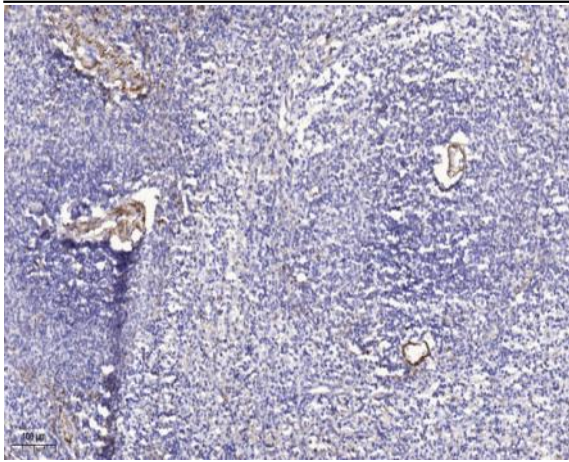
Western Blot analysis of various cells using Phospho-Integrin  $\beta$ 3 (Y785) Polyclonal Antibody diluted at 1:500



Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using Integrin beta3 (Phospho-Tyr785) Antibody



Western blot analysis of lysates from HeLa cells, HepG2 cells and HUVEC cells, using Integrin beta3 (Phospho-Tyr785) Antibody. The lane on the right is blocked with the phospho peptide.



Immunohistochemical analysis of paraffin-embedded human spleen. 1, Antibody was diluted at 1:200(4° overnight). 2, Tris-EDTA,pH9.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 45min).