



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

|                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Catalog No         | BYab-32473                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Isotype            | IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Reactivity         | Human;Mouse;Rat                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Applications       | IF;ELISA;IHC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Gene Name          | ITGB3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Protein Name       | Integrin beta-3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Immunogen          | The antiserum was produced against synthesized peptide derived from human Integrin beta3 around the phosphorylation site of Tyr785. AA range:739-788                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Specificity        | Phospho-Integrin $\beta$ 3 (Y785) Polyclonal Antibody detects endogenous levels of Integrin $\beta$ 3 protein only when phosphorylated at Y785.                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Formulation        | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Source             | Polyclonal, Rabbit,IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Purification       | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Dilution           | IF/ICC 1:50-300; ELISA 1:2000-20000; IHC-p 1:50-200                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Concentration      | 1 mg/ml                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Purity             | $\geq 90\%$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Storage Stability  | -20°C/1 year                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Synonyms           | ITGB3; GP3A; Integrin beta-3; Platelet membrane glycoprotein IIIa; GPIIIa; CD antigen CD61                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Observed Band      | 87kD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Cell Pathway       | 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 .                                                                                                                                                                                                                                                                                                                   |
| Tissue Specificity | 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.                                                                                                                                                                                                                                                                                                                                                                            |
| 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 |

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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

**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],

**matters needing attention**

Avoid repeated freezing and thawing!

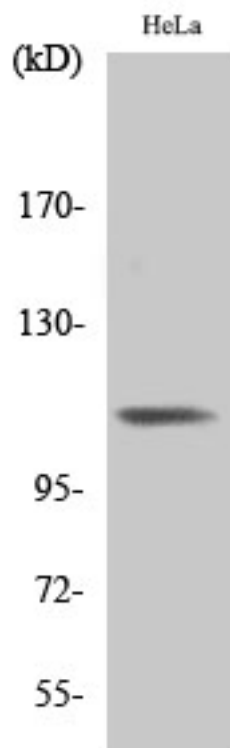
**Usage suggestions**

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

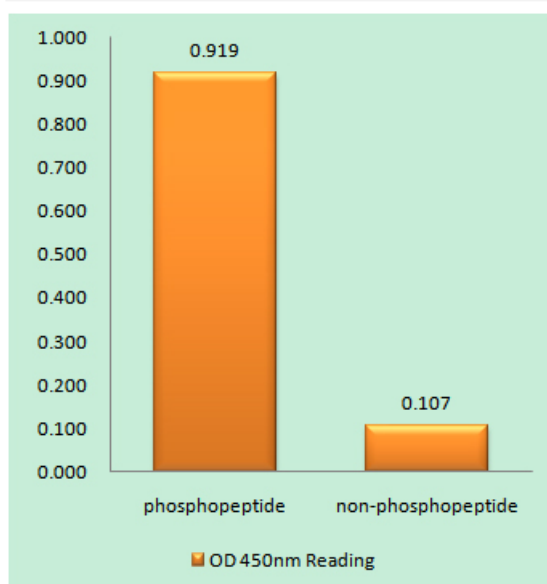
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## Products Images

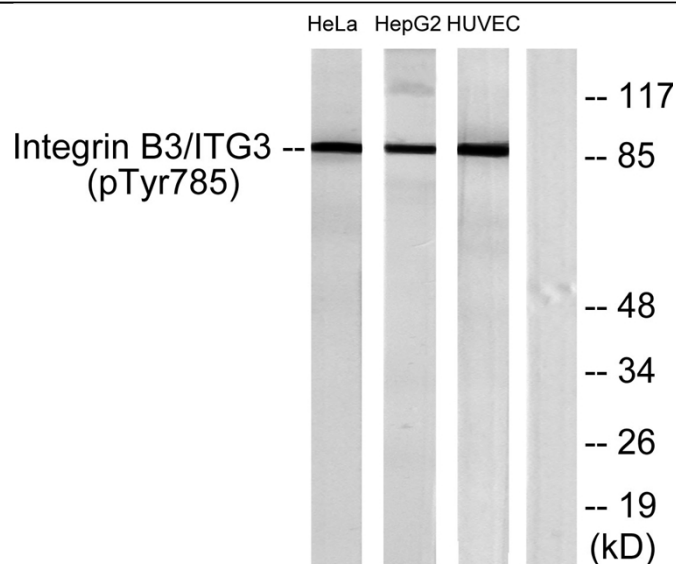


Western Blot analysis of various cells using Phospho-Integrin  $\beta 3$  (Y785) Polyclonal Antibody diluted at 1:500

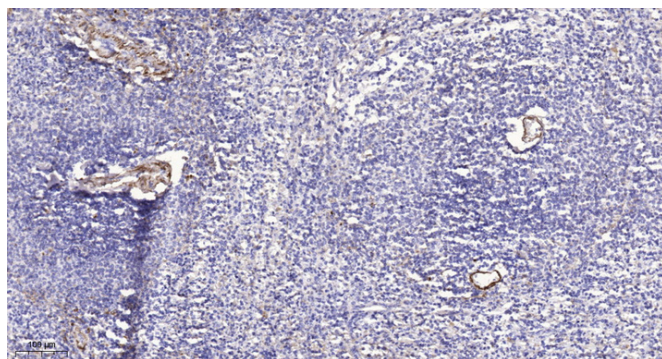


Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using Integrin beta3 (Phospho-Tyr785) Antibody

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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).