Product datasheet

Anti-Integrin Beta 3/ITGB3 Antibody

Catalog Number: *A00587-1*

BOSTER®
antibody and ELISA experts
BOSTER BIOLOGICAL TECHNOLOGY
Building C21, 3rd to 5th Floors, Optics Valley Biopharmaceutical Accelerator,
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Basic Information

Product Name	Anti-Integrin Beta 3/ITGB3 Antibody
Gene Name	ITGB3
Source	Rabbit
Clonality	Polyclonal
Isotype	IgG
Species Reactivity	human, rat
Tested Application	WB, IHC, FCM, ELISA
Contents	500 ug/ml antibody with PBS, 0.02% NaN3, 1 mg/ml BSA and 50% glycerol.
Immunogen	E.coli-derived human Integrin beta 3/ITGB3 recombinant protein (Position: N29-Q523).
Concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	100 kDa
Dilution Ratios	Western blot (WB): 1:500-2000 Immunohistochemistry (IHC): 1:50-400 Flow Cytometry (Fixed): 1:50-200 Enzyme linked immunosorbent assay (ELISA): 1:100-1000 (Boiling the paraffin sections in 10mM citrate buffer,pH6.0,or PH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user.

Storage

12 months from date of receipt，-20℃ as supplied.

Background Information

ITGB3 (INTEGRIN, BETA-3), also called GP3A, GPIIIa, CD61, is a protein that in humans is encoded by the ITGB3 gene. It is a cluster of differentiation found on thrombocytes. This gene is mapped to 17q21.32. And the GP3A gene has 14 exons. The 3-prime exon is larger than 1,700 nucleotides and contains the 3-prime untranslated region. The ITGB3 complex belongs to the integrin class of cell adhesion molecule receptors that share a common heterodimeric structure with alpha and beta subunits. Additionally, the ITGB3 complex mediates platelet aggregation by acting as a receptor for fibrinogen. Although the ITGB3 is expressed on the cell surface at normal levels and is capable of function following extracellular stimulation, it could not be activated via the 'inside-out' signaling pathways.

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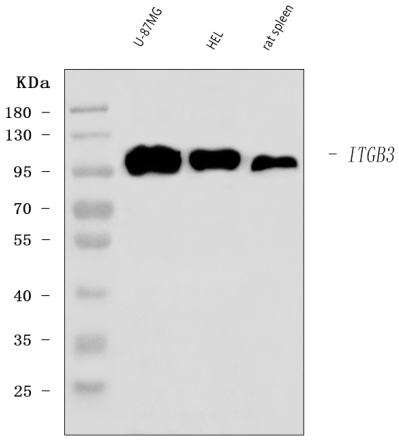
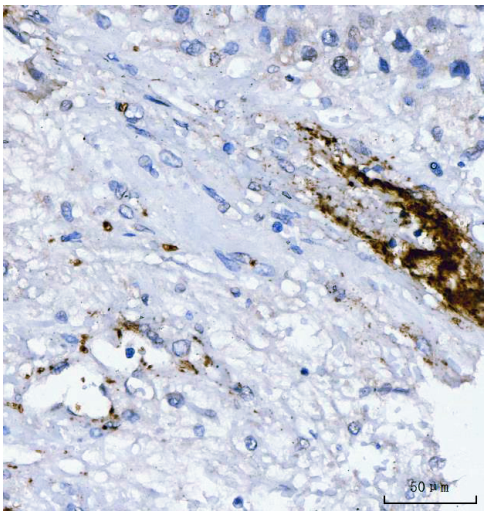
Reference

Anti-Integrin Beta 3/ITGB3 Antibody被引用在2文献中。

Selected Validation Data



Western blot analysis of Integrin Beta 3/ITGB3 using anti-Integrin Beta 3/ITGB3 antibody (A00587-1). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.
Lane 1: U-87MG whole cell lysates,
Lane 2: HEL whole cell lysates,
Lane 3: rat spleen tissue lysates.
After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-Integrin Beta 3/ITGB3 antigen affinity purified polyclonal antibody (A00587-1) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for Integrin Beta 3/ITGB3 at approximately 100 kDa. The expected band size for Integrin Beta 3/ITGB3 is at 87 kDa.



IHC analysis of Integrin Beta 3/ITGB3 using anti-Integrin Beta 3/ITGB3 antibody (A00587-1).
Integrin Beta 3/ITGB3 was detected in a paraffin-embedded section of human liver cancer tissue. Biotinylated goat anti-rabbit IgG was used as secondary antibody. The tissue section was incubated with rabbit anti-Integrin Beta 3/ITGB3 Antibody (A00587-1) at a dilution of 1:200 and developed using Strepavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB (Catalog # AR1027) as the chromogen.

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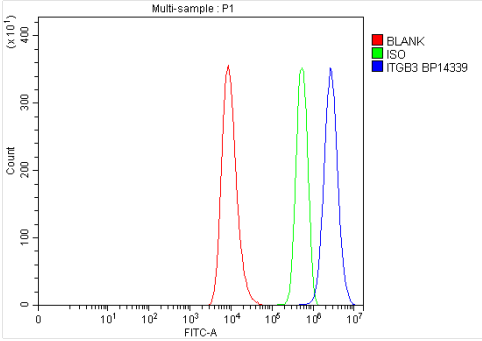

Flow Cytometry analysis of HEL cells using anti-Integrin Beta 3/ITGB3 antibody (A00587-1).
Overlay histogram showing HEL cells stained with A00587-1 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-Integrin Beta 3/ITGB3 Antibody (A00587-1) at 1:100 dilution for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127) was used as secondary antibody at 1:100 dilution for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG at 1:100 dilution used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.