

## Anti-Integrin beta 5/ITGB5 Antibody Picoband® (monoclonal, 9E2)

Catalog Number: M04201

### About ITGB5

This gene encodes a beta subunit of integrin, which can combine with different alpha chains to form a variety of integrin heterodimers. Integrins are integral cell-surface receptors that participate in cell adhesion as well as cell-surface mediated signaling. The alpha beta5 integrin is involved in adhesion to vitronectin.

### Overview

Product Name	Anti-Integrin beta 5/ITGB5 Antibody Picoband® (monoclonal, 9E2)
Reactive Species	Human
Description	Boster Bio Anti-Integrin beta 5/ITGB5 Antibody Picoband® (monoclonal, 9E2) catalog # M04201. Tested in Flow Cytometry, IHC, WB applications. This antibody reacts with Human. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Application	Flow Cytometry, IHC, WB
Clonality	Monoclonal 9E2
Formulation	Each vial contains 4mg Trehalose, 0.9mg NaCl and 0.2mg Na2HPO4.
Storage Instructions	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.
Host	Mouse
Uniprot ID	P18084

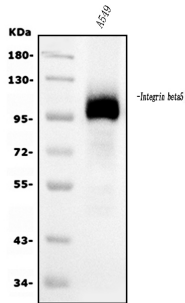
### Technical Details

Immunogen	E.coli-derived human Integrin beta 5/ITGB5 recombinant protein (Position: S32-D689).
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Mouse IgG (EK1001) for Western blot, and HRP Conjugated anti-Mouse IgG Super Vision Assay Kit (SV0001-1) for IHC(P).
Cross Reactivity	No cross-reactivity with other proteins.
Isotype	Mouse IgG1
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.

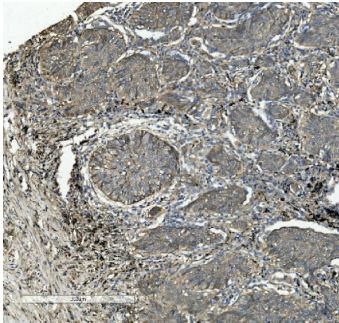
Suggested Dilutions

Western blot, 0.25-0.5ug/ml, Human  
Immunohistochemistry (Paraffin-embedded Section), 2-5ug/ml, Human  
Flow Cytometry (Fixed), 1-3ug/1x10<sup>6</sup> cells, Human

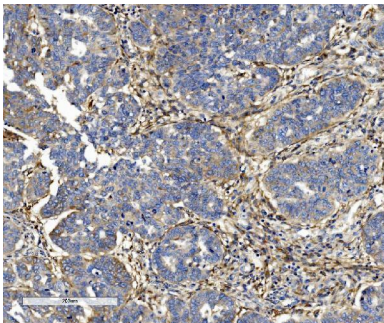
## Anti-Integrin beta 5/ITGB5 Antibody Picoband® (monoclonal, 9E2) (M04201) Images



Western blot analysis of Integrin beta 5/ITGB5 using anti-Integrin beta 5/ITGB5 antibody (M04201). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30ug of sample under reducing conditions. Lane 1: human A549 whole cell lysates. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with mouse anti-Integrin beta 5/ITGB5 antigen affinity purified monoclonal antibody (Catalog # M04201) at 0.5 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-mouse IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1001) with Tanon 5200 system. A specific band was detected for Integrin beta 5/ITGB5 at approximately 100KD. The expected band size for Integrin beta 5/ITGB5 is at 100KD.

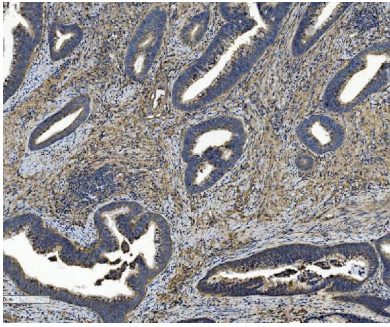


IHC analysis of Integrin beta 5/ITGB5 using anti-Integrin beta 5/ITGB5 antibody (M04201). Integrin beta 5/ITGB5 was detected in paraffin-embedded section of human lung cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml mouse anti-Integrin beta 5/ITGB5 Antibody (M04201) overnight at 4°C. Biotinylated goat anti-mouse IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) (Catalog # SA1021) with DAB as the chromogen.

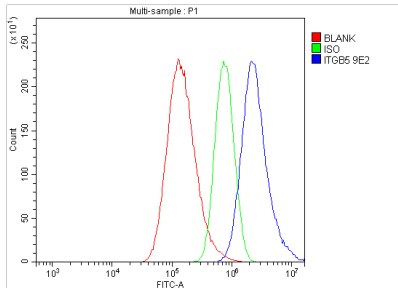


IHC analysis of Integrin beta 5/ITGB5 using anti-Integrin beta 5/ITGB5 antibody (M04201). Integrin beta 5/ITGB5 was detected in paraffin-embedded section of human ovarian serous adenocarcinoma tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml mouse anti-Integrin beta 5/ITGB5 Antibody (M04201) overnight at 4°C. Biotinylated goat anti-mouse IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) (Catalog # SA1021) with DAB as the chromogen.

IHC analysis of Integrin beta 5/ITGB5 using anti-Integrin beta 5/ITGB5 antibody (M04201). Integrin beta 5/ITGB5 was detected in paraffin-embedded section of human rectal cancer tissue. Heat mediated antigen retrieval was



performed in EDTA buffer (pH8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml mouse anti-Integrin beta 5/ITGB5 Antibody (M04201) overnight at 4°C. Biotinylated goat anti-mouse IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) (Catalog # SA1021) with DAB as the chromogen.



Flow Cytometry analysis of A549 cells using anti-Integrin beta 5/ITGB5 antibody (M04201). Overlay histogram showing A549 cells stained with M04201 (Blue line). The cells were fixed with 4% paraformaldehyde and blocked with 10% normal goat serum. And then incubated with mouse anti-Integrin beta 5/ITGB5 Antibody (M04201, 1ug/1x10<sup>6</sup> cells) for 30 min at 20°C. DyLight®488 conjugated goat anti-mouse IgG (BA1126, 5-10ug/1x10<sup>6</sup> cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was mouse IgG (1ug/1x10<sup>6</sup>) used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.

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