

## Anti-Integrin alpha V/ITGAV Antibody Picoband®

Catalog Number: A01561-2

### About ITGAV

Integrin alpha-V is a protein that in humans is encoded by the ITGAV gene. It is a member of the beta 3 integrin subfamily (cytoadhesins). The human locus for the av gene (VNRA) was previously mapped to the long arm of chromosome 2. Sims et al. (2000) localized the VNRA gene to 2q31. The gene contains 30 exons and spans over 93 kb of genomic DNA. It functions as a receptor for a group of proteins that includes vitronectin, fibrinogen, thrombospondin, and von Willebrand factor.

### Overview

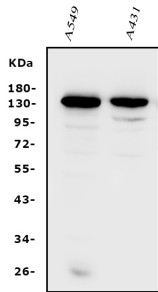
Product Name	Anti-Integrin alpha V/ITGAV Antibody Picoband®
Reactive Species	Human
Description	Boster Bio Anti-Integrin alpha V/ITGAV Antibody Picoband® catalog # A01561-2. Tested in ELISA, Flow Cytometry, WB applications. This antibody reacts with Human. The brand Picoband indicates this is a premium 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	ELISA, Flow Cytometry, WB
Clonality	Polyclonal
Formulation	Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na <sub>2</sub> HPO <sub>4</sub> , 0.01mg NaN <sub>3</sub> .
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	Rabbit
Uniprot ID	P06756

### Technical Details

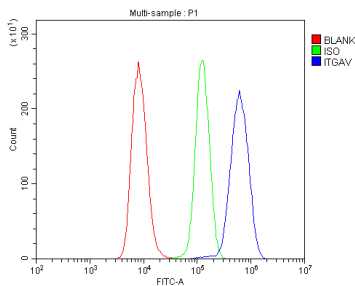
Immunogen	E.coli-derived human Integrin alpha V/ITGAV recombinant protein (Position: H732-D970).
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot.
Cross Reactivity	No cross-reactivity with other proteins.
Isotype	Rabbit IgG
Form	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, 0.1-0.25ug/ml, Human Flow Cytometry (Fixed), 1-3ug/1x10 <sup>6</sup> cells, Human ELISA, 0.1-0.5ug/ml, -

## Anti-Integrin alpha V/ITGAV Antibody Picoband® (A01561-2) Images



Western blot analysis of Integrin alpha V/ITGAV using anti-Integrin alpha V/ITGAV antibody (A01561-2). 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 50ug of sample under reducing conditions. Lane 1: human A549 whole cell lysates, Lane 2: human A431 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 rabbit anti-Integrin alpha V/ITGAV antigen affinity purified polyclonal antibody (Catalog # A01561-2) at 0.25 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-rabbit 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 # EK1002) with Tanon 5200 system. A specific band was detected for Integrin alpha V/ITGAV at approximately 130-140KD. The expected band size for Integrin alpha V/ITGAV is at 130KD.



Flow Cytometry analysis of Raji cells using anti-Integrin alpha V/ITGAV antibody (A01561-2). Overlay histogram showing Raji cells stained with A01561-2 (Blue line). The cells were fixed with 4% paraformaldehyde and blocked with 10% normal goat serum. And then incubated with rabbit anti-Integrin alpha V/ITGAV Antibody (A01561-2, 1ug/1x10<sup>6</sup> cells) for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127, 5-10ug/1x10<sup>6</sup> cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit 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.

## 5 Publications Citing This Product

1. PubMed ID: 10.3390/ijms12063409, Study on the Expression and Clinical Significances of Lewis y Antigen and Integrin alphav, beta3 in Epithelial Ovarian Tumors
2. PubMed ID: 10.1038/srep20587, TGFbeta3-mediated induction of Periostin facilitates head and neck cancer growth and is associated with metastasis
3. PubMed ID: 10.1002/ar.21398, Overexpression of Lewis (y) Antigen Protects Ovarian Cancer RMG-1 Cells from Carboplatin-Induced Apoptosis by the Upregulation of Topo-1 and Topo-2 beta

Visit [bosterbio.com/anti-integrin-alpha-v-itgav-picoband-trade-antibody-a01561-2-boster.html](http://bosterbio.com/anti-integrin-alpha-v-itgav-picoband-trade-antibody-a01561-2-boster.html) to see all 5 publications.

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### Anti-Integrin alpha V/ITGAV Antibody

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