bs-1356R **[Primary Antibody]**

Integrin Alpha V + Beta 5 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 3685 **SWISS:** P06756

Target: Integrin Alpha V + Beta 5

Purification: affinity purified by Protein A

Concentration: 1mg/ml

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: Integrins are heterodimeric proteins made up of alpha and beta subunits. At least 18 alpha and 8 beta subunits have been described in mammals. Integrin family members are membrane receptors involved in cell adhesion and recognition in a variety of processes including embryogenesis, hemostasis, tissue repair, immune response and metatastatic diffusion of tumour cells. ITAGV encodes integrin alpha chain V. Integrins are heterodimeric integral membrane proteins composed of an alpha chain and a beta chain. The I-domain containing integrin alpha V undergoes post-translational cleavage to yield disulfide-linked heavy and light chains, that combine with multiple integrin beta chains to form different integrins. Among the known associating beta chains (beta chains 1,3,5,6, and 8; ITGB1, ITGB3, ITGB5, ITGB6, and ITGB8), each can interact with extracellular matrix ligands; the alpha V beta 3 integrin, perhaps the most studied of these, is referred to as the Vitronectin receptor (VNR). In addition to adhesion, many integrins are known to facilitate signal transduction.

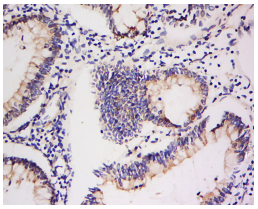
Applications: **IHC-P** (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)
Flow-Cyt (1μg/Test)

Reactivity: Human (predicted: Mouse, Rat)

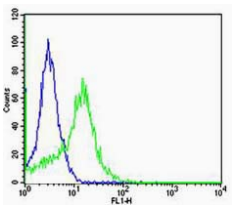
Predicted MW.: 88/121 kDa

Subcellular Location: Cell membrane

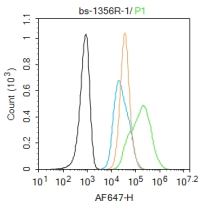
VALIDATION IMAGES



Tissue/cell: Human colon cancer; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min; Incubation: Anti-Integrin Alpha V + Beta 5 Polyclonal Antibody, Unconjugated(bs-1356R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Cell: A549 Concentration:1:100 Host/Isotype:Rabbit/IgG Flow cytometric analysis of Rabbit IgG isotype control (Cat#: bs-1356R) on A549(green) compared with control in the absence of primary antibody (blue) followed by Alexa Fluor 488-conjugated goat anti-rabbit IgG(H+L) secondary antibody .



Blank control:U2OS. Primary Antibody (green line): Rabbit Anti-Integrin Alpha V + Beta 5 antibody (bs-1356R) Dilution: 1μg /10^6 cells; Isotype Control Antibody (orange line): Rabbit IgG . Secondary Antibody : Goat anti-rabbit IgG-AF647 Dilution: 1μg /test. Protocol The cells were fixed with 4% PFA (10min at room temperature)and then permeabilized with 0.1%PBST for 20 min at room temperature. The cells were then incubated in 5%BSA to block non-specific protein-protein interactions for 30 min at room temperature .Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.

SELECTED CITATIONS

- **[IF=38.637]** Tomohiro Yokotaet al. Type V Collagen in Scar Tissue Regulates the Size of Scar after Heart Injury. Cell . 2020 Aug 6;182(3):545-562.e23. FCM ;mouse. 32621799
- **[IF=33.1]** Jie Luo. et al.Nanocarrier imaging at single-cell resolution across entire mouse bodies with deep learning.NATURE BIOTECHNOLOGY.2025 Jan 14. IF ;Mouse. 39809933
- **[IF=13.3]** Myung-Ju Lee. et al. Senescence of endothelial cells increases susceptibility to Kaposi's sarcoma-associated herpesvirus infection via CD109-mediated viral entry. J CLIN INVEST. 2024 Dec;: FC ;Human. 39666389
- **[IF=12.4]** Yongchang Yang. et al. The CEBPB+ glioblastoma subcluster specifically drives the formation of M2 tumor-associated macrophages to promote malignancy growth. THERANOSTICS. 2024; 14(10): 4107–4126 IF ;Human. 38994023
- **[IF=12.121]** Gehua Zhen. et al. Mechanical stress determines the configuration of TGFβ activation in articular cartilage. Nat Commun. 2021 Mar;12(1):1-16 IHC ;Mouse. 33731712