bs-2016R **[Primary Antibody]**

Integrin Alpha V + Beta 1 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 3685 **SWISS:** P06756

Target: Integrin Alpha V + Beta 1

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.

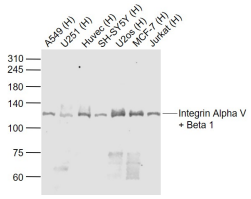
Applications: **WB** (1:500-2000)
Flow-Cyt (1μg /test)

Reactivity: Human (predicted: Mouse, Rat, Pig, Sheep, Cow, Dog, Horse)

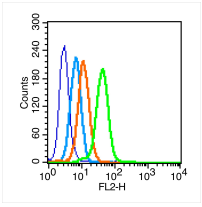
Predicted MW.: 114 kDa

Subcellular Location: Cell membrane

VALIDATION IMAGES



Sample: Lane 1: A549 (Human) Cell Lysate at 30 ug Lane 2: U251 (Human) Cell Lysate at 30 ug Lane 3: Huvec (Human) Cell Lysate at 30 ug Lane 4: SH-SY5Y (Human) Cell Lysate at 30 ug Lane 5: U2os (Human) Cell Lysate at 30 ug Lane 6: MCF-7 (Human) Cell Lysate at 30 ug Lane 7: Jurkat (Human) Cell Lysate at 30 ug Primary: Anti-Integrin Alpha V + Beta 1 (bs-2016R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 125 kD Observed band size: 125 kD



Blank control (blue line): MCF7 (fixed with 70% methanol overnight at 4°C). Primary Antibody (green line): Rabbit Anti-Integrin Alpha V + Beta 1 antibody (bs-2016R), Dilution: 1μg /10^6 cells; Isotype Control Antibody (orange line): Rabbit IgG . Secondary Antibody (white blue line): Goat anti-rabbit IgG-PE, Dilution: 1μg /test.

SELECTED CITATIONS

- **[IF=6.638]** Wong L et al. Substrate Stiffness Directs Diverging Vascular Fates. Acta Biomater. 2019 Jul 19. pii: S1742-7061(19)30519-7. Other ;Mouse. 31326665
- **[IF=7.182]** Tingting Guo. et al. Lepidium meyenii Walpers polysaccharide and its cationic derivative re-educate tumor-

associated macrophages for synergistic tumor immunotherapy. Carbohyd Polym. 2020 Dec;250:116904 WB ;Mouse. 33049880

- **[IF=5.162]** Liu S et al. Structural characterization of a novel polysaccharide from Panax notoginseng residue and its immunomodulatory activity on bone marrow dendritic cells. Int J Biol Macromol . 2020 Oct 15;161:797-809. WB ;Mouse. 32553971
- **[IF=3.53]** Hendesi H, Barbe MF, Safadi FF, Monroy MA, Popoff SN (2015) Integrin Mediated Adhesion of Osteoblasts to Connective Tissue Growth Factor (CTGF/CCN2) Induces Cytoskeleton Reorganization and Cell Differentiation. PLoS ONE 10(2): e0115325. Other ;="Mouse". 25714841
- **[IF=2.561]** Chaudhary P et al. HGF promotes HTR-8/SVneo cell migration through activation of MAPK/PKA signaling leading to up-regulation of WNT ligands and integrins that target β-catenin. Mol Cell Biochem. 2019 Mar;453(1-2):11-32. ICC ;Human. 30136190