bs-2250R **[Primary Antibody]**

ITGAV Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 3685 **SWISS:** P06756

Target: ITGAV

Immunogen: KLH conjugated synthetic peptide derived from human Integrin alpha V: 51-150/1048. < Extracellular >

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.

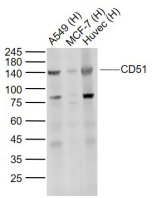
Applications: **WB** (1:1000-10000)
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)
Flow-Cyt (1μg/Test)
ICC/IF (1:100)

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

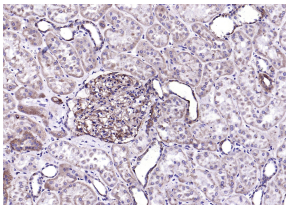
Predicted MW.: 95/113 kDa

Subcellular Location: Cell membrane

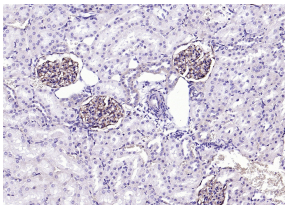
VALIDATION IMAGES



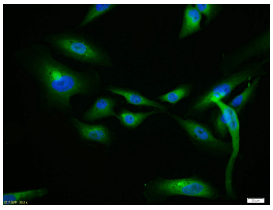
Sample: Lane 1: A549 (Human) Cell Lysate at 30 ug Lane 2: MCF-7 (Human) Cell Lysate at 30 ug Lane 3: Huvec (Human) Cell Lysate at 30 ug Primary: Anti-CD51 (bs-2250R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 125-140 kD Observed band size: 140 kD



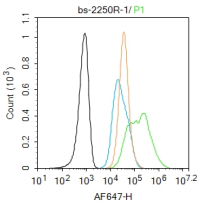
Paraformaldehyde-fixed, paraffin embedded (human kidney); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (ITGAV) Polyclonal Antibody, Unconjugated (bs-2250R) at 1:500 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



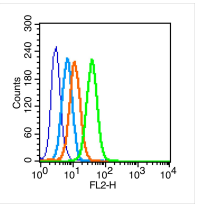
Paraformaldehyde-fixed, paraffin embedded (rat kidney); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (ITGAV) Polyclonal Antibody, Unconjugated (bs-2250R) at 1:500 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



U-2OS cell; 4% Paraformaldehyde-fixed; Triton X-100 at room temperature for 20 min; Blocking buffer (normal goat serum, C-0005) at 37°C for 20 min; Antibody incubation with (CD51) polyclonal Antibody, Unconjugated (bs-2250R) 1:100, 90 minutes at 37°C; followed by a conjugated Goat Anti-Rabbit IgG antibody at 37°C for 90 minutes, DAPI (blue, C02-04002) was used to stain the cell nuclei.



Blank control:U2OS. Primary Antibody (green line): Rabbit Anti-CD51 antibody (bs-2250R) 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.



Blank control (blue line): MCF7 (fixed with 70% methanol overnight at 4°C). Primary Antibody (green line): Rabbit Anti-CD51 antibody (bs-2250R), 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=6.52]** Agarwal, Shailesh, et al. "Analysis of bone - cartilage - stromal progenitor populations in trauma induced and genetic models of heterotopic ossification." STEM CELLS (2016). IHC ;="Mouse". 27068890
- **[IF=6.7]** Lijuan Shi. et al. Vascularized characteristics and functional regeneration of three-dimensional cell reconstruction of oral mucosa equivalents based on vascular homeostasis phenotypic modification. J TISSUE ENG. ;(): WB ;Human. 39301507
- **[IF=5.587]** Agarwal et al. Analysis of Bone-Cartilage-Stromal Progenitor Populations in Trauma Induced and Genetic Models of Heterotopic Ossification. (2016) Stem.Cells. 34:1692-701 IF ;Human,Mouse. 27068890
- **[IF=3.8]** Sidorenko Valeria. et al. Targeting vascular disrupting agent-treated tumor microenvironment with tissue-penetrating nanotherapy. SCI REP-UK. 2024 Jul;14(1):1-16 IF ;Mouse. 39080306
- **[IF=0]** Ulmasov et al. Inhibitors of Arg-Gly-Asp-Binding Integrins Reduce Development of Pancreatic Fibrosis in Mice. (2016) Cell.Mol.Gastroenterol.Hepatol. 2:499-518 IHC ;Mouse. 28174730