bs-23987R **[Primary Antibody]**

Integrin beta 5 Rabbit pAb

www.bioss.com.cn
sales@bioss.com.cn
techsupport@bioss.com.cn
400-901-9800

DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 3693 **SWISS:** P18084

Target: Integrin beta 5

Immunogen: KLH conjugated synthetic peptide derived from human Integrin beta 5: 701-799/799.

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 important extracellular matrix (ECM) receptor proteins located on cell surfaces. They are hetrodimers composed of an alpha and a beta transmembrane glycoprotein subunit. Around 22 different integrins (different alpha/ beta subunit combinations) are found in nature. Integrins are generally present in high concentrations at the cell surface, but, unlike most other cell surface receptors, they bind ligands with very low affinity. Due to their weak individual binding, integrins need to cluster and bind in groups in order to effectively bind the ECM. Integrins bind many different ligands including laminin. Each integrin is made up of a large N terminal extracellular domain that binds the ECM ligand and a small C terminal cytoplasmic domain that mediates interaction with the actin cytoskeleton and signaling function. The integrin subunit beta 5 has only been associated with the alpha v subunit to form the alpha v beta 5 heterodimer. This integrin mediates cell adhesion to vitronectin and also recognizes fibronectin when the integrin is activated. This integrin is found in a variety of cells in most normal tissue.

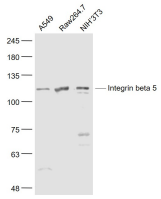
Applications: **WB** (1:500-2000)

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

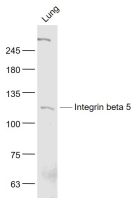
Predicted MW.: 86 kDa

Subcellular Location: Extracellular matrix ,Cell membrane

VALIDATION IMAGES



Sample: A549(Human) Cell Lysate at 30 ug Raw264.7(Mouse) Cell Lysate at 30 ug NIH/3T3(Mouse) Cell Lysate at 30 ug Primary: Anti- Integrin beta 5 (bs-23987R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 86 kD Observed band size: 126 kD



Sample: Lung (Mouse) Lysate at 40 ug Primary: Anti- Integrin beta 5 (bs-23987R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 86 kD Observed band size: 126 kD

SELECTED CITATIONS

- **[IF=3.899]** Junfen Xu. et al. FAM83A exerts tumor-suppressive roles in cervical cancer by regulating integrins. Int J Oncol. 2020 Aug;57(2):509-521 WB,IF,IHC ;Human. 32626940