



Rabbit Anti-Integrin Alpha V + Beta 3 (CD51+CD61) antibody

SL1310R

Product Name:	Integrin Alpha V + Beta 3 (CD51+CD61)
Chinese Name:	整合素 α V β 3抗体
Alias:	CD51 + CD61; CD51; CD61; GP3A; GPIIIa; integrin alpha v; integrin beta 3; integrin alpha v beta 3; ITGAV; ITGB3; Platelet membrane glycoprotein IIIa; Vitronectin receptor alpha subunit; VNRA; Antigen identified by monoclonal antibody L230; CD51 antigen; CD61 antigen; DKFZp686A08142; Integrin alpha V (vitronectin receptor, alpha polypeptide, antigen CD51); integrin alpha v; Integrin beta 3 (platelet glycoprotein IIIa, antigen CD61); Integrin beta chain beta 3; integrin alpha v beta 3; ITGAV; MSK8; Platelet glycoprotein IIIa; Platelet membrane glycoprotein IIIa; Vitronectin receptor alpha subunit; Vitronectin receptor subunit alpha.
文献引用 PubMed	<p>Specific References(6)SL1310R has been referenced in 6 publications.</p> <p>[IF=7.60]Mondal, Goutam, Sugata Barui, and Arabinda Chaudhuri. "The relationship between the cyclic-RGDfK ligand and αvβ3 integrin receptor." Biomaterials (2013).Human. PubMed:23702147</p> <p>[IF=5.56]Jiang, Lei, et al. "⁶⁴Cu-Labeled Divalent Cystine Knot Peptide for Imaging Carotid Atherosclerotic Plaques." Journal of Nuclear Medicine (2015): jnumed-115.IHC-F;Mouse. PubMed:25908832</p> <p>[IF=2.47]Chen, Ming, et al. "Periostin activates pathways involved in epithelial-mesenchymal transition in adamantinomatous craniopharyngioma." Journal of the Neurological Sciences (2015).WB;Human. PubMed:26723972</p>

	<p>[IF=3.52]Chen, Li, and David R. Brigstock. "Integrins and heparan sulfate proteoglycans on hepatic stellate cells (HSC) are novel receptors for HSC-derived exosomes." FEBS letters (2016).other;Mouse.</p> <p style="text-align: right;">PubMed:27714787</p> <p>[IF=3.55]Bian, Qin, et al. "Mechanosignaling activation of TGFβ maintains intervertebral disc homeostasis." Bone Research 5 (2017): 17008IHC-P;Mouse.</p> <p style="text-align: right;">PubMed:28392965</p> <p>[IF=2.83]Li, Yin, Lin Xiong, and Jianping Gong. "Lyn kinase enhanced hepatic fibrosis by modulating the activation of hepatic stellate cells." Am J Transl Res 9.6 (2017): 2865-2877.IHC-F;Mouse.</p> <p style="text-align: right;">PubMed:28670375</p>
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800Flow-Cyt=1μg/TestIF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Cellular localization:	The cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human Integrin Alpha V + Beta 3:
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	<p>Integrins are integral cell-surface proteins composed of an alpha chain and a beta chain. They are known to participate in cell adhesion as well as cell-surface mediated signalling. Integrins are heterodimeric integral membrane proteins composed of an alpha chain and a beta chain.</p> <p>CD51 encodes integrin alpha chain V. 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. The CD61 protein product is the integrin beta chain beta 3. Integrin beta 3 is found along with the alpha IIb chain in platelets.</p> <p>Integrin alpha V/beta 3 is a receptor for cytotactin, fibronectin, laminin, matrix metalloproteinase 2, osteopontin, osteomodulin, prothrombin, thrombospondin,</p>

vitronectin and von Willebrand factor. Integrin alpha V/beta 3 recognizes the sequence R-G-D in a wide array of ligands. The alpha V integrins are receptors for vitronectin, cytotactin, fibronectin, fibrinogen, laminin, matrix metalloproteinase 2, osteopontin, osteomodulin, prothrombin, thrombospondin and von Willebrand factor. They recognize the sequence R-G-D in a wide array of ligands.

Subcellular Location:

Cell Membrane; single-pass type I membrane protein.

SWISS:

P05106, P06756

Gene ID:

3685

Database links:

[Entrez Gene: 3685](#)Human

[Entrez Gene: 3690](#)Human

[Oimim: 173470](#)Human

[Oimim: 193210](#)Human

[SwissProt: P05106](#)Human

[SwissProt: P06756](#)Human

[Unigene: 218040](#)Human

[Unigene: 436873](#)Human

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

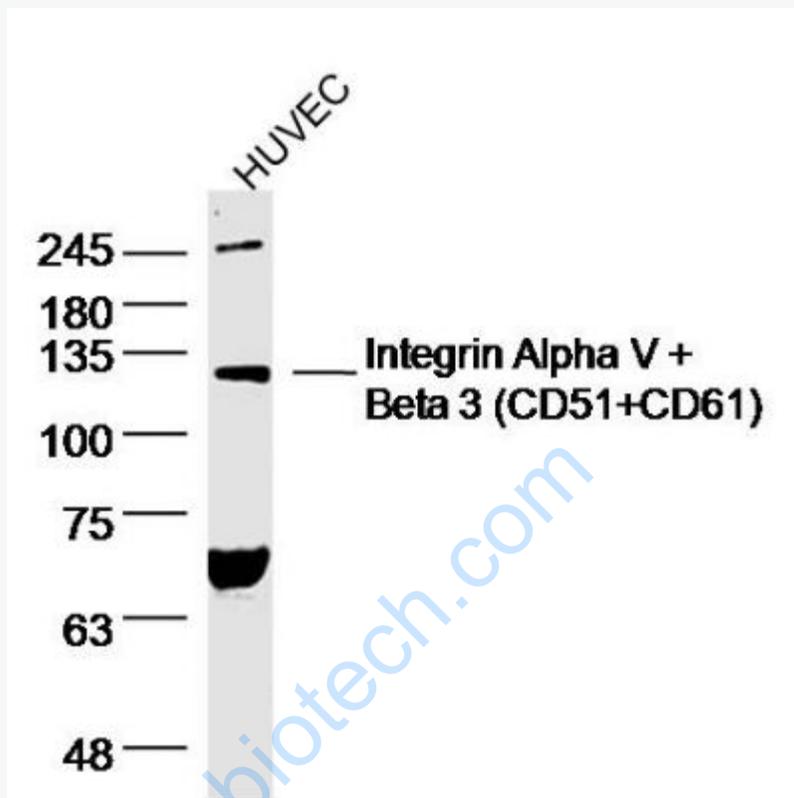
整合素 α V β 3为二聚体的跨膜glycoprotein质, 可以调节Tumour细胞在多种Extracellular matrix蛋白中的粘附和迁移, 在被激活的endothelial

cells中有较高的表达, 并在新生血管生成过程中发挥优势。

整合素 α V β 3在细胞外的信号传入细胞内调节细胞生长、改变细胞形态、影响细胞运动,

并在Tumour侵袭和转移的过程中起重要作用.整合素 α V β 3是特异性表达在vascular endothelial cell表面的粘附因子。

Picture:



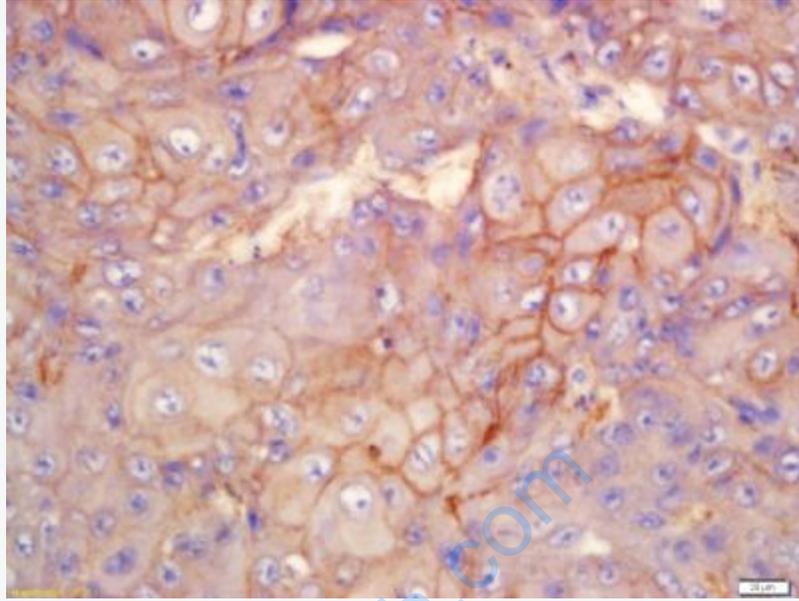
Sample: HUVEC (human) Cell Lysate at 40 ug

Primary: Anti- Integrin Alpha V + Beta 3 (CD51+CD61) (SL1310R) at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 116 kD

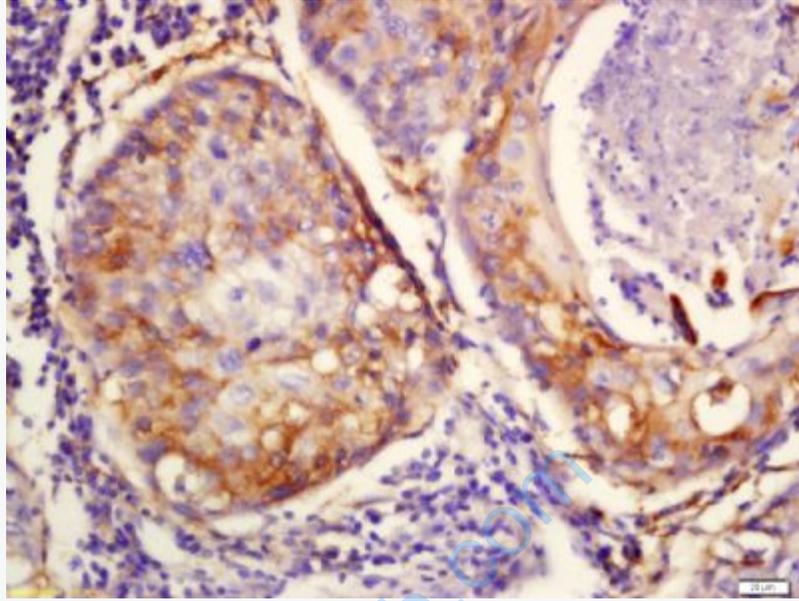
Observed band size: 120 kD



Tissue/cell: Human laryngeal tissue; 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;

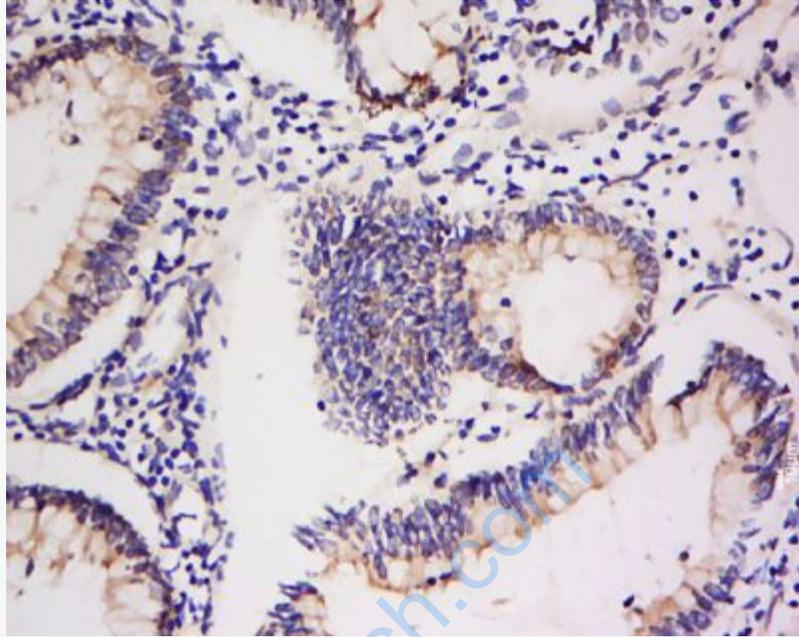
Incubation: Anti-Integrin Alpha V + Beta 3 (CD51 + CD61) Polyclonal Antibody, Unconjugated(SL1310R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Tissue/cell: Human lung cancer tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;

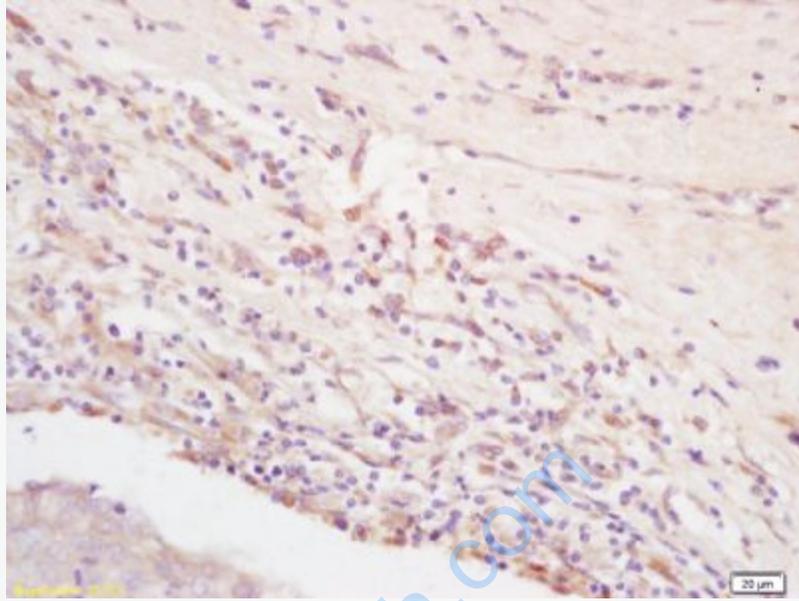
Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;

Incubation: Anti-Integrin Alpha V + Beta 3 (CD51 + CD61) Polyclonal Antibody, Unconjugated(SL1310R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining

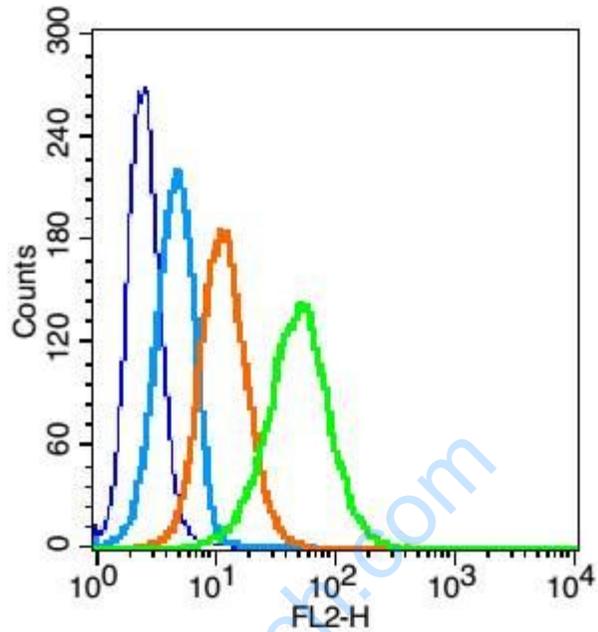


cell: mouse lung.

Incubation: Avoid light, at 4°C for 40 minutes. Red line: Blank control (mouse lung cells), 2×10^6 /ml, at 4°C for 40 minutes. Green line: (primary antibody) Integrin Alpha V + Beta 3 (CD51+CD61) (SL1310R), (secondary antibody) Goat Anti-rabbit IgG/FITC (SL1310R), 1:00, at 4°C for 40 minutes.



Tissue/cell: rat brain tissue; 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 3(CD51+CD61) Polyclonal Antibody, Unconjugated(SL1310R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Blank control: U937(blue).

Primary Antibody: Rabbit Anti-Integrin Alpha V + Beta 3 (CD51+CD61) antibody(SL1310R), Dilution: 1 μ g in 100 μ L 1X PBS containing 0.5% BSA;

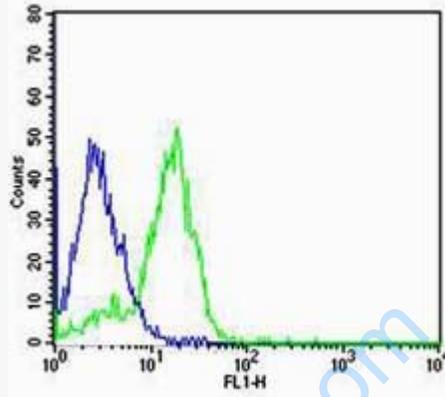
Isotype Control Antibody: Rabbit IgG(orange) ,used under the same conditions);

Secondary Antibody: Goat anti-rabbit IgG-PE(white blue), Dilution: 1:200 in 1 X PBS containing 0.5% BSA.

Protocol

The cells were fixed with 2% paraformaldehyde (10 min). Primary antibody (SL1310R) were incubated for 30 min on the ice, followed by 1 X PBS containing 0.5% BSA + 10% goat serum (15 min) to block non-specific protein-protein interactions. Then the Goat Anti-rabbit IgG/PE antibody was added into the blocking buffer mentioned above to react with the primary antibody at 1/200 dilution for 30

min on ice. Acquisition of 20,000 events was performed.



Cell: MCF-7

Concentration:1:100

Host/Isotype:Rabbit/IgG

Flow cytometric analysis of Rabbit IgG isotype control (Cat#: bs-1310R) on MCF-7 (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 .