



## Rabbit Anti-Integrin alpha 5 antibody

SL0567R

**Product Name** Integrin alpha 5

**Chinese Name** 整合素  $\alpha 5$  (CD49e) 抗体

**Alias** Alpha 5 beta 1; CD49 antigen-like family member E; CD49e; ECMRVI; Fibronectin Receptor alpha; Fibronectin receptor alpha subunit; Fibronectin receptor, alpha subunit; FNR; FNRA; gpIc/IIa; Integrin alpha 5 (fibronectin receptor alpha); Integrin alpha F; Integrin alpha-5; Integrin alpha-F; Integrin, alpha 5 (fibronectin receptor, alpha polypeptide); ITGA5; Very late Activation Antigen 5; Very Late Activation Protein 5 alpha; Very late activation protein 5, alpha subunit; VLA5; VLA5A; ITA5\_HUMAN; Integrin  $\alpha 5$ .

**Research Area** Cell biology immunology Signal transduction Stem cells Cell adhesion molecule

**Immunogen Species** Rabbit

**Clonality** Polyclonal

**React Species** Human, Mouse, (predicted: Rat, Pig, Cow, Horse, )

WB=1:500-2000 (Paraffin sections need antigen repair)

**Applications** not yet tested in other applications.  
optimal dilutions/concentrations should be determined by the end user.

**Theoretical molecular weight** 110kDa

**Detection molecular weight** 135 kDa

**Cellular localization** The cell membrane

**Form** Liquid

**Concentration** 1mg/ml

**immunogen** KLH conjugated synthetic peptide derived from human Integrin alpha-5 light chain: 1021-1099/1099 <Cytoplasmic>

**Lsotype** IgG

**Purification** affinity purified by Protein A



**Buffer Solution**

1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.

**Storage**

Shipped at 4°C. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.

**Attention**

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

**PubMed**

[PubMed](#)

The product of this gene belongs to the integrin alpha chain family. Integrins are heterodimeric integral membrane proteins composed of an alpha chain and a beta chain. This gene encodes the integrin alpha 5 chain. Alpha chain 5 undergoes post-translational cleavage in the extracellular domain to yield disulfide-linked light and heavy chains that join with beta 1 to form a fibronectin receptor. In addition to adhesion, integrins are known to participate in cell-surface mediated signalling. [provided by RefSeq, Jul 2008]

**Function:**

CD49e is the integrin alpha 5 chain. Integrins are heterodimeric integral membrane proteins composed of an alpha chain and a beta chain. Alpha chain 5 undergoes post translational cleavage in the extracellular domain to yield disulfide linked light and heavy chains that join with beta 1 to form a fibronectin receptor that is known variously: in lymphocytes as very late (activation) antigen 5 (VLA5); in platelets as glycoprotein IcIIa; and in fibroblasts as extracellular matrix receptor 6 (ECMVI). In addition to adhesion, integrins are known to participate in cell surface mediated signalling.

**Product Detail**

**Subunit:**

Heterodimer of an alpha and a beta subunit. The alpha subunit is composed of an heavy and a light chain linked by a disulfide bond. Alpha-5 associates with beta-1. Interacts with HPS5 and NISCH. Interacts with RAB21 and COMP. Interacts with HIV-1 Tat.

**Subcellular Location:**

Membrane; Single-pass type I membrane protein.

**Similarity:**

Belongs to the integrin alpha chain family.  
Contains 7 FG-GAP repeats.

**SWISS:**

P08648

**Gene ID:**

3678

**Database links:**

[Entrez Gene: 3678](#) Human

[Entrez Gene: 16402](#) Mouse

[Entrez Gene: 315346](#) Rat

[Omim: 135620](#) Human

[SwissProt: P08648](#) Human

[SwissProt: P11688](#) Mouse

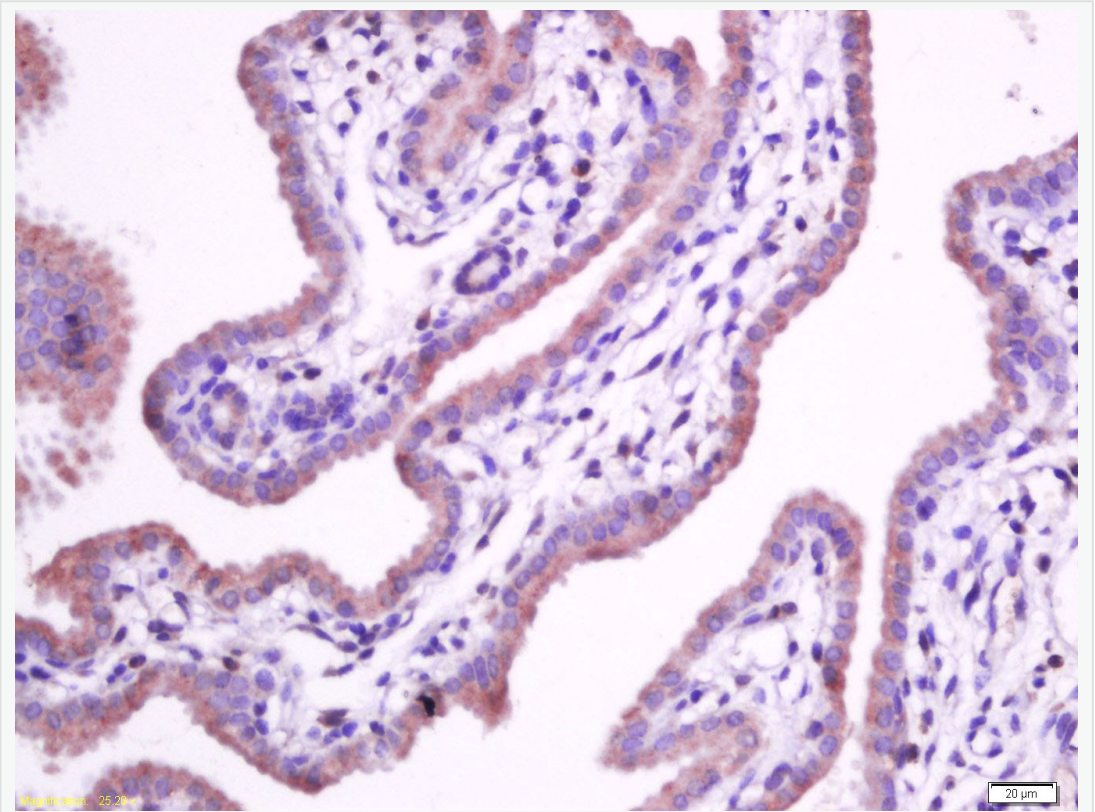
[Unigene: 505654](#) Human

[Unigene: 16234](#) Mouse

[Unigene: 100796](#) Rat

ITG- $\alpha$ 5 粘附分子整合素  $\alpha$ 5 也是 Cell adhesion molecule 的超家族成员, 广泛分布于细胞表面和 Extracellular matrix 的 glycoprotein, 不仅介导细胞与细胞或细胞与基质之间的连接, 而且参与细胞间的 Signal transduction, 细胞的生长移行, Tumour 的转移浸润, 免疫炎性反应, 血管生成等一系列的生理和病理过程。

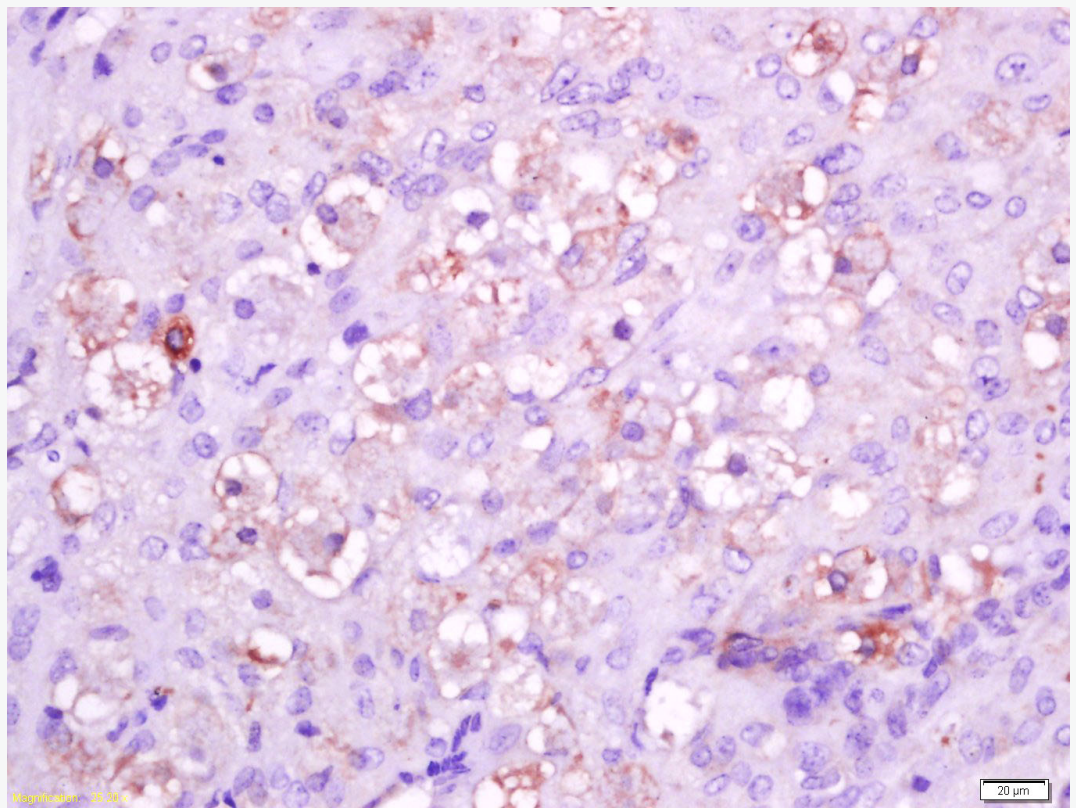
**Product  
Picture**



Tissue/cell: Mouse placenta tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer ( 1M, 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;

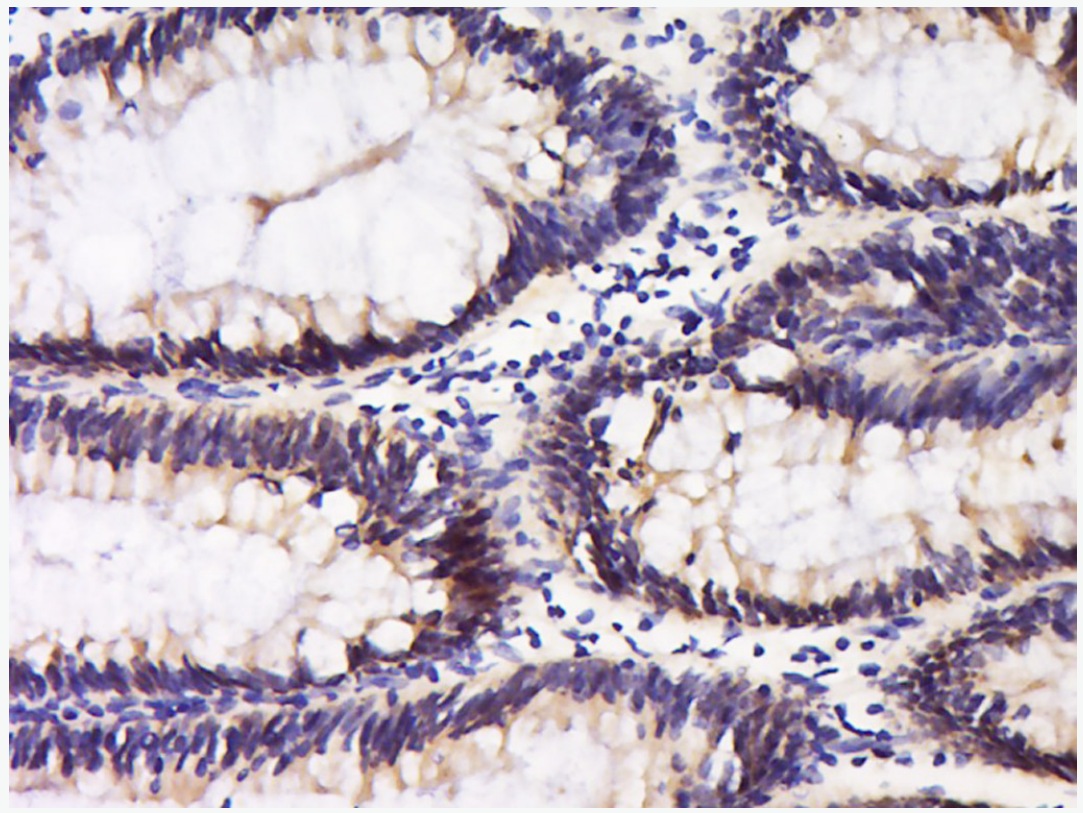
Incubation: Anti-Integrin alpha 5 Polyclonal Antibody, Unconjugated(SL0567R) 1:500, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



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Tissue/cell: human colon cancer; 4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer ( 1M, 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 5 Polyclonal Antibody, Unconjugated(SL0567R) 1:400, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining