

## Rabbit Anti-CD51/AP Conjugated antibody

SL2250R-AP

<b>Product Name</b>	Anti-CD51/AP
<b>Chinese Name</b>	碱性磷酸酶 (AP) 标记的整合素 $\alpha$ V 抗体
<b>Alias</b>	Integrin alpha V; CD 51; CD51; CD51 antigen; HGNC; ITGAV; Msk 8; Msk8; Vitronectin receptor alpha polypeptide; Vitronectin receptor alpha polypeptide antigen CD51; Vitronectin receptor subunit alpha; VNRA; ITAV_HUMAN; Integrin alpha-V heavy chain; Integrin alpha-V light chain; Integrin alpha-V Precursor.
<b>Research Area</b>	Cardiovascular Signal transduction The cell membrane 受体 Cell adhesion molecule
<b>Immunogen Species</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>React Species</b>	Human Mouse Rat(predicted:Chicken Dog Pig Cow Horse) WB=1:50-200 IHC-P=1:50-200 IHC-F=1:50-200
<b>Applications</b>	not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
<b>Molecular weight</b>	95/113kDa
<b>Form</b>	Lyophilized or Liquid
<b>Concentration</b>	1mg/ml
<b>immunogen</b>	KLH conjugated synthetic peptide derived from human Integrin alpha V (915-948aa)
<b>Lsotype</b>	IgG
<b>Purification</b>	affinity purified by Protein A
<b>Storage Buffer</b>	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol. 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 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
<b>Storage</b>	
<b>Product Detail</b>	<b>background:</b> Integrin alpha V chain interacts with the integrin beta 3 subunit/CD61 to form the alpha-V-beta-3 heterodimer/vitronectin receptor. It is expressed on

endothelial cells, some activated leukocytes, NK cells, macrophages, neutrophils, and platelets. Integrin alpha V also forms heterodimers with the integrin beta 1, beta 5, beta 6, and beta 8 subunits. Alpha-V-beta-3 is an activation dependent receptor for platelet attachment and spreading on vitronectin and other matrix components. In case of HIV-1 infection, the interaction with extracellular viral Tat protein seems to enhance angiogenesis in Kaposi's sarcoma lesions. Alpha-V/beta-6 binds to foot-and-mouth disease virus (FMDV) VP1 protein and acts as a receptor for this virus. By similarity, Alpha-V/beta-6 binds to coxsackievirus A9 and coxsackievirus B1 capsid proteins and acts as a receptor for these viruses.

**Function:**

The alpha-V integrins are receptors for vitronectin, cytotactin, fibronectin, fibrinogen, laminin, matrix metalloproteinase-2, osteopontin, osteomodulin, prothrombin, thrombospondin and vWF. They recognize the sequence R-G-D in a wide array of ligands. In case of HIV-1 infection, the interaction with extracellular viral Tat protein seems to enhance angiogenesis in Kaposi's sarcoma lesions.

**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-V associates with either beta-1, beta-3, beta-5, beta-6 or beta-8 subunit. Interacts with HIV-1 Tat. Alpha-V/beta-6 binds to foot-and-mouth disease virus (FMDV) VP1 protein and acts as a receptor for this virus. Alpha-V/beta-6 binds to coxsackievirus A9 and coxsackievirus B1 capsid proteins and acts as a receptor for these viruses. Interacts with RAB25.

**Subcellular Location:**

Membrane; Single-pass type I membrane protein.

**Similarity:**

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

**Database links:**

[Entrez Gene: 3685](#) Human

[Entrez Gene: 16410](#) Mouse

[Entrez Gene: 296456](#) Rat

[Omim: 193210](#) Human



[SwissProt: P06756](#) Human

[SwissProt: P43406](#) Mouse

**Important Note:**

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