

## Cleaved-Integrin $\alpha$ V HC (K889) Polyclonal Antibody

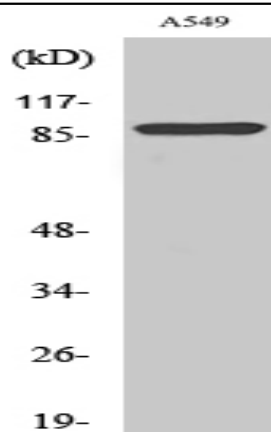
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|------------------------------|--|
| <b>Catalog No :</b>          | YC0092   |
| <b>Reactivity :</b>          | Human;Rat;Mouse;   |
| <b>Applications :</b>        | WB;ELISA   |
| <b>Target :</b>              | Integrin $\alpha$ V  |
| <b>Fields :</b>              | >>Phagosome;>>PI3K-Akt signaling pathway;>>Focal adhesion;>>ECM-receptor interaction;>>Cell adhesion molecules;>>Regulation of actin cytoskeleton;>>Thyroid hormone signaling pathway;>>Human cytomegalovirus infection;>>Human papillomavirus infection;>>Pathways in cancer;>>Proteoglycans in cancer;>>Small cell lung cancer;>>Hypertrophic cardiomyopathy;>>Arrhythmogenic right ventricular cardiomyopathy;>>Dilated cardiomyopathy;>>Fluid shear stress and atherosclerosis |
| <b>Gene Name :</b>           | ITGAV  |
| <b>Protein Name :</b>        | Integrin alpha-V   |
| <b>Human Gene Id :</b>       | 3685   |
| <b>Human Swiss Prot No :</b> | P06756   |
| <b>Mouse Swiss Prot No :</b> | P43406   |
| <b>Immunogen :</b>           | The antiserum was produced against synthesized peptide derived from human ITGAV. AA range:840-889  |
| <b>Specificity :</b>         | Cleaved-Integrin $\alpha$ V HC (K889) Polyclonal Antibody detects endogenous levels of fragment of activated Integrin $\alpha$ V HC protein resulting from cleavage adjacent to K889.  |
| <b>Formulation :</b>         | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.  |
| <b>Source :</b>              | Polyclonal, Rabbit,IgG   |
| <b>Dilution :</b>            | WB 1:500 - 1:2000. ELISA: 1:10000. Not yet tested in other applications.   |

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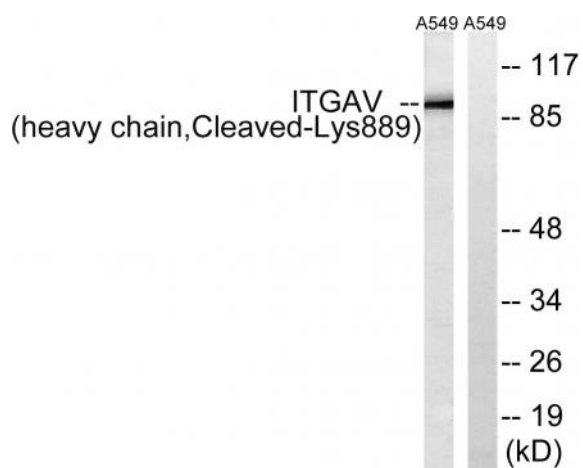
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|-------------------------------|--|
| <b>Purification :</b>         | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.  |
| <b>Concentration :</b>        | 1 mg/ml  |
| <b>Storage Stability :</b>    | -15°C to -25°C/1 year(Do not lower than -25°C)   |
| <b>Observed Band :</b>        | 95kD   |
| <b>Cell Pathway :</b>         | Focal adhesion;ECM-receptor interaction;Cell adhesion molecules (CAMs);Regulates Actin and Cytoskeleton;Pathways in cancer;Small cell lung cancer;Hypertrophic cardiomyopathy (HCM);Arrhythmogenic right   |
| <b>Background :</b>           | integrin subunit alpha V(ITGAV) Homo sapiens The product of this gene belongs to the integrin alpha chain family. Integrins are heterodimeric integral membrane proteins composed of an alpha subunit and a beta subunit that function in cell surface adhesion and signaling. The encoded preproprotein is proteolytically processed to generate light and heavy chains that comprise the alpha V subunit. This subunit associates with beta 1, beta 3, beta 5, beta 6 and beta 8 subunits. The heterodimer consisting of alpha V and beta 3 subunits is also known as the vitronectin receptor. This integrin may regulate angiogenesis and cancer progression. Alternative splicing results in multiple transcript variants. Note that the integrin alpha 5 and integrin alpha V subunits are encoded by distinct genes. [provided by RefSeq, Oct 2015],  |
| <b>Function :</b>             | 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.,similarity:Belongs to the integrin alpha chain family.,similarity:Contains 7 FG-GAP repeats.,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 (By similarity). Alpha-V/beta-6 binds to coxsack |
| <b>Subcellular Location :</b> | Cell membrane; Single-pass type I membrane protein. Cell junction, focal adhesion .  |
| <b>Expression :</b>           | Aortic endothelium,Liver,Pooled,Testis,  |

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## Products Images



Western Blot analysis of various cells using Cleaved-Integrin  $\alpha$ V HC (K889) Polyclonal Antibody



Western blot analysis of lysates from A549 cells, treated with etoposide 25uM 1h, using ITGAV (heavy chain, Cleaved-Lys889) Antibody. The lane on the right is blocked with the synthesized peptide.