SunLong Biotech Co.,LTD
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Rabbit Anti-Integrin alpha 4 antibody

SL0641R

Product Name	Integrin alpha 4
Chinese Name	整合素 α4（CD49d）抗体
Alias	Alpha 4 subunit of VLA 4 receptor;ITG-α4: Antigen CD49D; CD 49d ; CD49d; CD49d antigen; alpha IV; ITGA 4; ITGA4; LPAM23; MGC90518; Very Late Activation Antigen 4; Very Late A Receptor Alpha 4 Subunit; VLA 4; VLA4; integrin alpha-4; ITA4_HUMAN; Integrin α4; Integr
Research Area	Cell biology immunology Signal transduction Stem cells Cell adhesion molecule
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	Human, (predicted: Mouse, Rat, Cow, Horse, Rabbit,)
Applications	WB=1:500-2000,ELISA=1:5000-10000 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Theoretical molecular weight	111kDa
Detection molecular weight	150 kDa
Cellular localization	The cell membrane
Form	Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthetic peptide derived from human Integrin alpha 4: 551-650/1032 <Extrace
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℃. 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 d

PubMed PubMed

The gene encodes a member of the integrin alpha chain family of proteins. Integrins are heterodi
proteins composed of an alpha chain and a beta chain that function in cell surface adhesion and s
preproprotein is proteolytically processed to generate light and heavy chains that comprise the al
subunit associates with a beta 1 or beta 7 subunit to form an integrin that may play a role in cell mo
integrin is a therapeutic target for the treatment of multiple sclerosis, Crohn's disease and inflam
Alternative splicing results in multiple transcript variants. [provided by RefSeq, Oct 2015]

Product Detail

Function:
Integrins alpha-4/beta-1 (VLA-4) and alpha-4/beta-7 are receptors for fibronectin. They recogniz
within the alternatively spliced CS-1 and CS-5 regions of fibronectin. They are also receptors fo
alpha-4/beta-1 recognizes the sequence Q-I-D-S in VCAM1. Integrin alpha-4/beta-7 is also a rec
recognizes the sequence L-D-T in MADCAM1. On activated endothelial cells integrin VLA-4 tr
aggregation for most VLA-4-positive leukocyte cell lines. It may also participate in cytolytic T-ce
cells.

Subunit:
Heterodimer of an alpha and a beta subunit.

Subcellular Location:
Membrane; Single-pass type I membrane protein.

Post-translational modifications:
Phosphorylation on Ser-1027 inhibits PXN binding.

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

SWISS:
P13612

Gene ID:
3676

Database links:

Entrez Gene: 3676 Human

Entrez Gene: 16401 Mouse

Omim: 192975 Human

SwissProt: P13612 Human

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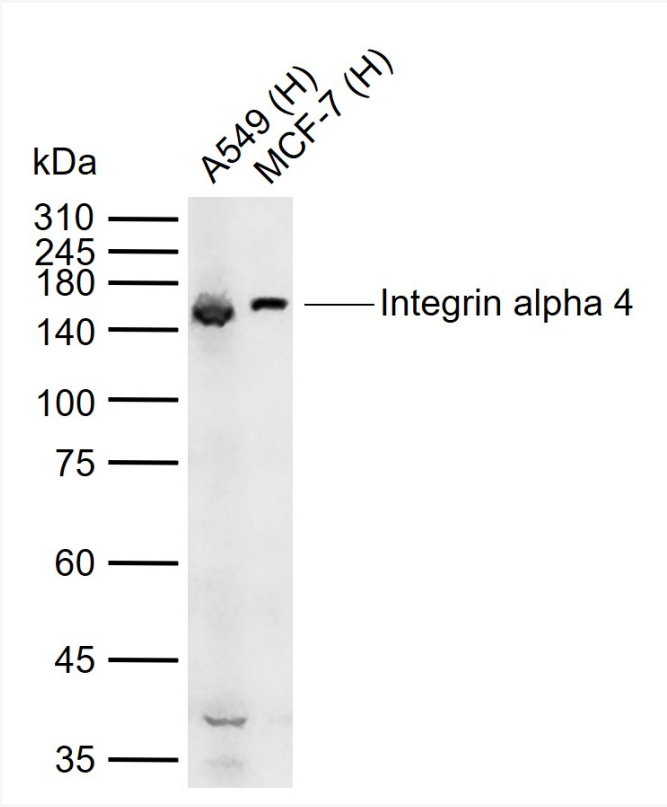
SwissProt: Q00651 Mouse

Unigene: 440955 Human

Unigene: 31903 Mouse

整合素-α-4 型 Integrin α4 (CD49d)整合素-α 是介导细胞与 Extracellular matrix 粘附作用的主

Product Picture



Sample:

Lane 1: Human A549 cell lysates

Lane 2: Human MCF-7 cell lysates

Primary: Anti-Integrin alpha 4 (SL0641R) at 1/1000 dilution

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

Predicted band size: 111 kDa

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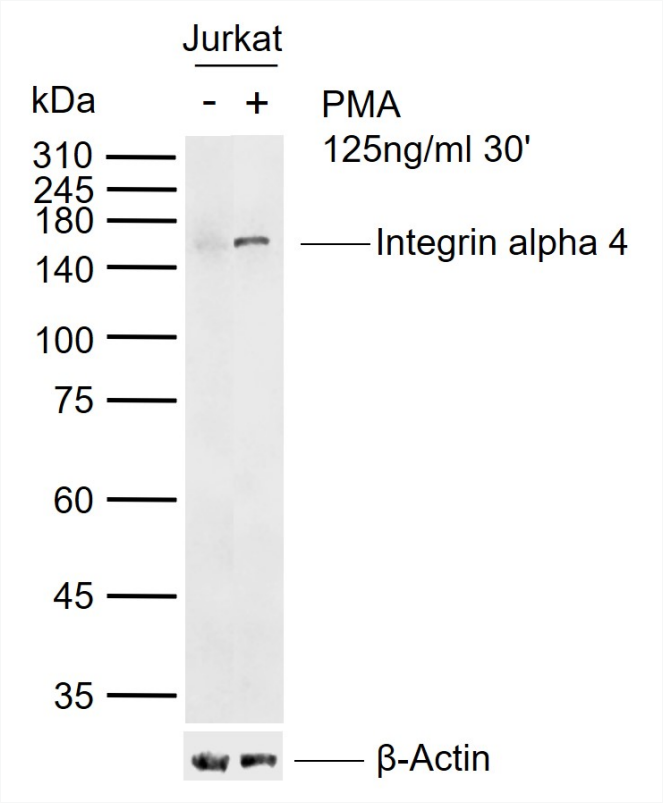
Observed band size: 150 kDa



Sample:

Lane 1: Normal human Jurkat cell lysates

Lane 2: Jurkat treated with PMA 125ng/ml 30min

Primary: Anti-Integrin alpha 4 (SL0641R) at 1/1000 dilution

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

Predicted band size: 111 kDa

Observed band size: 150 kDa

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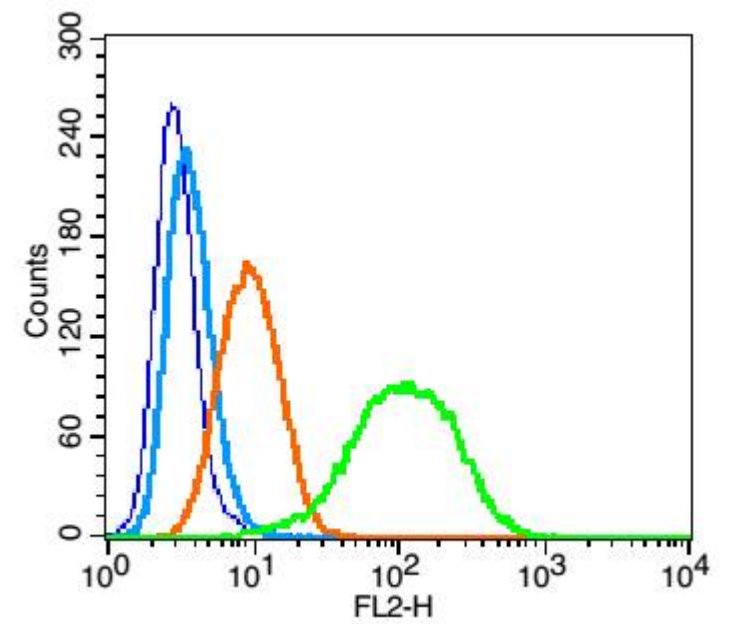

Blank control: U937(blue).

Primary Antibody: Rabbit Anti-Integrin alpha 4 antibody(SL0641R), Dilution: 1µg in 100 µL

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 contai

Protocol

The cells were fixed with 2% paraformaldehyde (10 min). Primary antibody (SL0641R, 1µg /

incubated for 30 min on the ice, followed by 1 X PBS containing 0.5% BSA + 10% goat seru

non-specific protein-protein interactions. Then the Goat Anti-rabbit IgG/PE antibody was add

buffer mentioned above to react with the primary antibody at 1/200 dilution for 30 min on ice.

events was performed.

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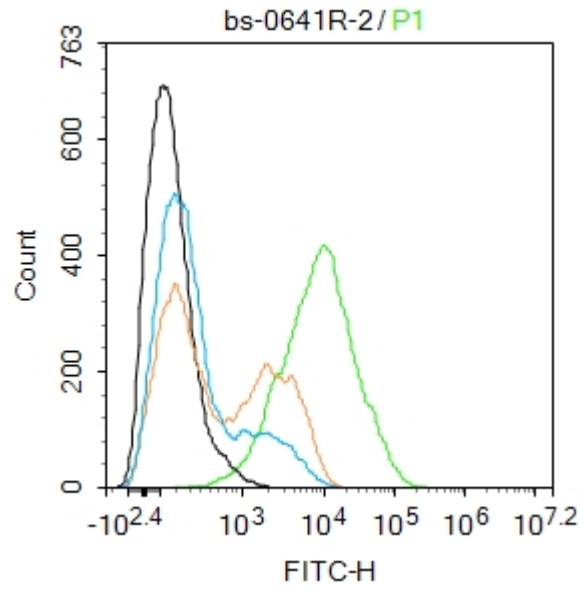

Blank control:THP-1.

Primary Antibody (green line): Rabbit Anti-Integrin alpha 4 antibody (SL0641R)

Dilution: 2µg /10^6 cells;

Isotype Control Antibody (orange line): Rabbit IgG .

Secondary Antibody : Goat anti-rabbit IgG-FITC

Dilution: 1µg /test.

Protocol

The cells were incubated in 5%BSA to block non-specific protein-protein interactions for 30 m

temperature .Cells stained with Primary Antibody for 30 min at room temperature. The seconda

min at room temperature. Acquisition of 20,000 events was performed.

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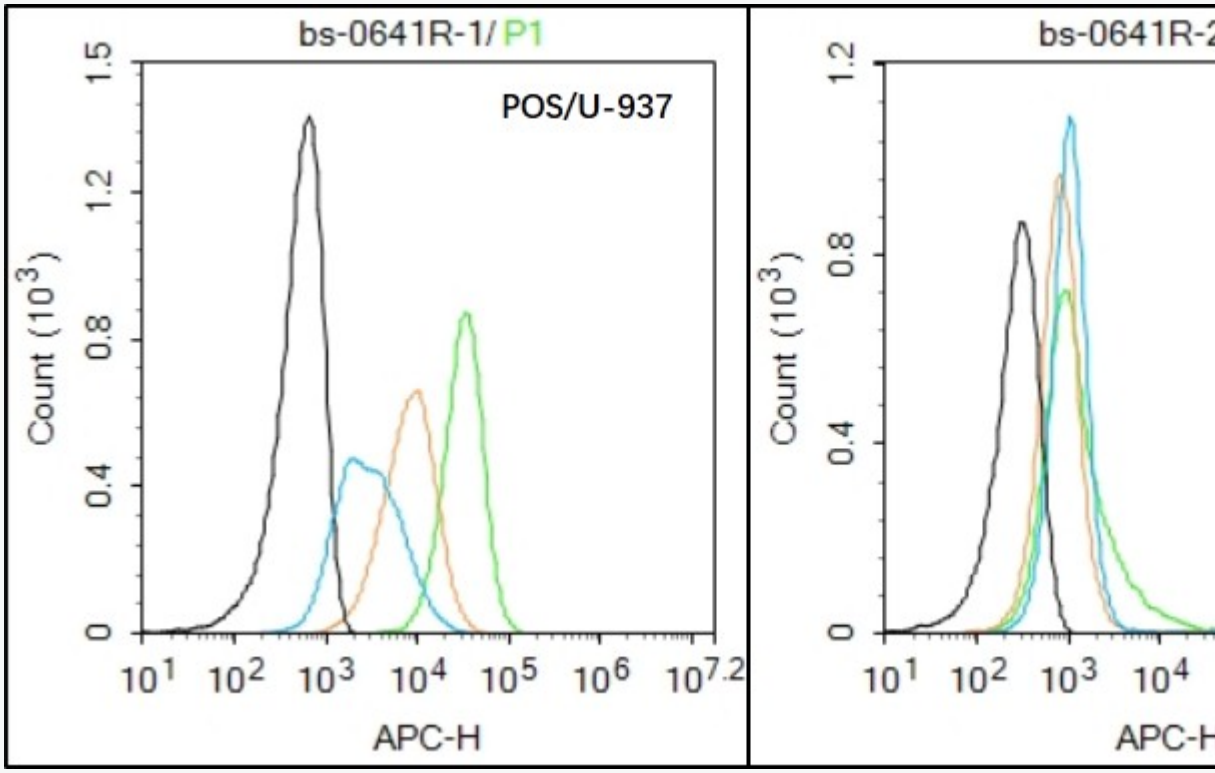

Black line : Positive blank control (U937); Negative blank control (MCF7）

Green line : Primary Antibody (Rabbit Anti-Integrin alpha 4 antibody (SL0641R))

Orange line： Isotype Control Antibody (Rabbit IgG) .

Blue line : Secondary Antibody (Goat anti-rabbit IgG-AF647)

U937（Positive）and MCF7（Negative control）cells (black) were incubated in 5% BSA bl

at room temperature. Cells were then stained with Integrin alpha 4 Antibody(SL0641R)at 1:50

buffer and incubated for 30 min at room temperature, washed twice with 2% BSA in PBS, fol

antibody(blue) incubation for 40 min at room temperature. Acquisitions of 20,000 events were

stained with primary antibody (green), and isotype control (orange).