

# Integrin- $\beta$ 1/CD29 Rabbit mAb

Catalog No.: A23497   **Recombinant**   **5 Publications**

## Basic Information

### Observed MW

135 kDa

### Calculated MW

88 kDa

### Category

Primary antibody

### Applications

WB, IHC-P, IF/ICC, FC, ELISA

### Cross-Reactivity

Human, Mouse, Rat

### Clone/No. number

ARC52470

## Background

Integrins are heterodimeric proteins made up of alpha and beta subunits. At least 18 alpha and 8 beta subunits have been described in mammals. Integrin family members are membrane receptors involved in cell adhesion and recognition in a variety of processes including embryogenesis, hemostasis, tissue repair, immune response and metastatic diffusion of tumor cells. This gene encodes a beta subunit. Multiple alternatively spliced transcript variants which encode different protein isoforms have been found for this gene.

## Recommended Dilutions

**WB**                    1:10000 - 1:30000

**IHC-P**                1:1000 - 1:5000

**IF/ICC**               1:100 - 1:400

**FC**                    1:50 - 1:200

**ELISA**                Recommended starting concentration is 1  $\mu$ g/mL.  
Please optimize the concentration based on your specific assay requirements.

## Immunogen Information

### Gene ID

3688

### Swiss Prot

P05556

### Immunogen

Recombinant protein (or fragment). This information is considered to be commercially sensitive.

### Synonyms

CD29; FNRB; MDF2; VLAB; GPIIA; MSK12; VLA-BETA; Integrin- $\beta$ 1/CD29

## Contact

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 | [www.abclonal.com.cn](http://www.abclonal.com.cn)

## Product Information

### Source

Rabbit

### Isotype

IgG

### Purification

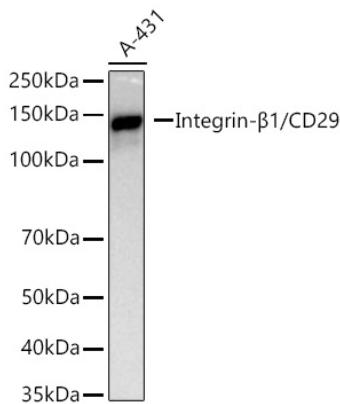
Affinity purification

### Storage

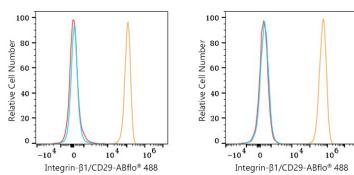
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS containing 50% glycerol and 0.05% BSA, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.

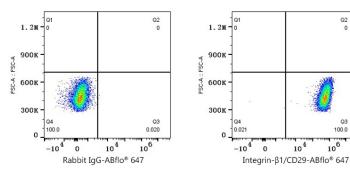
## Validation Data



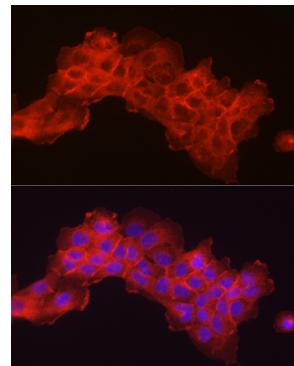
Western blot analysis of lysates from A-431 cells using Integrin- $\beta$ 1/CD29 Rabbit mAb (A23497) at 1:22000 dilution incubated overnight at 4°C.  
 Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.  
 Lysates/proteins: 25  $\mu$ g per lane.  
 Blocking buffer: 3% nonfat dry milk in TBST.  
 Detection: ECL Basic Kit (RM00020).  
 Exposure time: 30s.



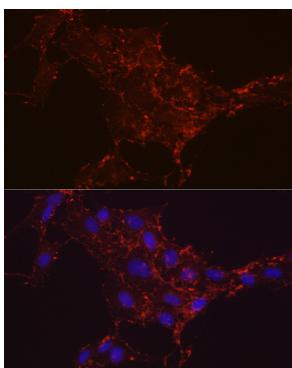
Flow cytometry:  $1 \times 10^6$  HL-60 cells (Low Expression, left) and A549 cells (right) were surface-stained with Rabbit anti-Human Integrin- $\beta$ 1/CD29 mAb (A27614, 2  $\mu$ g/mL, orange line) or Rabbit IgG isotype control (AC042, 2  $\mu$ g/mL, blue line), followed by Alexa Fluor® 647 conjugated goat anti-rabbit pAb staining. Non-fluorescently stained cells were used as blank control (red line).



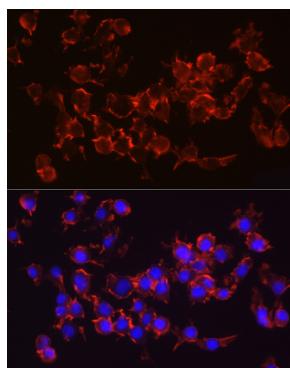
Flow cytometry:  $1 \times 10^6$  A549 cells were surface-stained with Rabbit IgG isotype control (AC042, 2  $\mu$ g/mL, left) or Rabbit anti-Human Integrin- $\beta$ 1/CD29 mAb (A27614, 2  $\mu$ g/mL, right), followed by Alexa Fluor® 647 conjugated goat anti-rabbit pAb staining.



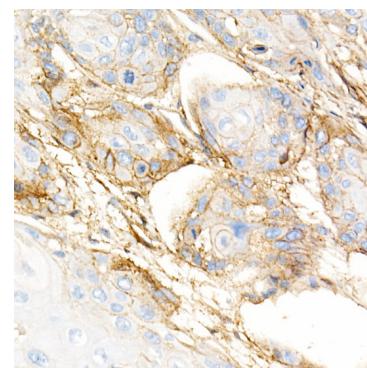
Immunofluorescence analysis of A-431 cells using Integrin- $\beta$ 1/CD29 Rabbit mAb (A23497) at dilution of 1:100 (40x lens). Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.



Immunofluorescence analysis of C6 cells using Integrin- $\beta$ 1/CD29 Rabbit mAb (A23497) at dilution of 1:100 (40x lens). Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.



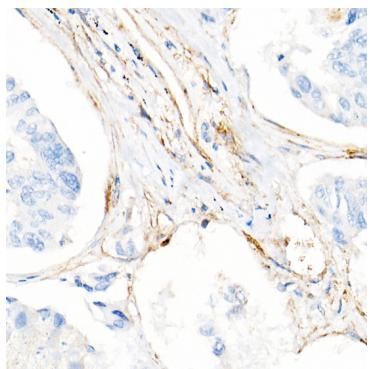
Immunofluorescence analysis of Neuro-2a cells using Integrin- $\beta$ 1/CD29 Rabbit mAb (A23497) at dilution of 1:100 (40x lens). Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.



Immunohistochemistry analysis of paraffin-embedded Human esophageal cancer using Integrin- $\beta$ 1/CD29 Rabbit mAb (A23497) at dilution of 1:5000 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.

## Validation Data

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Immunohistochemistry analysis of paraffin-embedded Human lung cancer using Integrin- $\beta$ 1/CD29 Rabbit mAb (A23497) at dilution of 1:5000 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.