

## Mouse CD29 Monoclonal Antibody | anti-ITGB1 antibody

CD29 (Stem Cell Marker)

| CATALOG # | HOST  | REACTIVITY                            | APPLICATIONS                |
|-----------|-------|---------------------------------------|-----------------------------|
| AAA215385 | Mouse | HumanDoes not react with Mouse or Rat | Immunohistochemistry, ELISA |

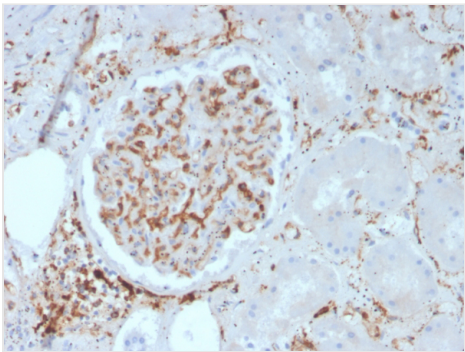
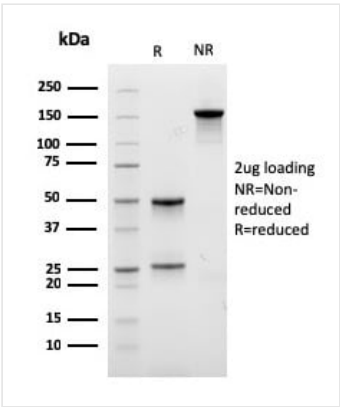
### PRODUCT SYNONYMS

CD29; Monoclonal Antibody; CD29 (Stem Cell Marker); Fibrinogen Receptor beta subunit; FNRB; Glycoprotein IIa (GPIIA); Integrin beta-1 (ITGB1); integrin VLA-4 beta subunit; MDF2; MSK12; Very Late Activation Protein beta Polypeptide; VLA-4 subunit beta; VLA-BETA; VLAB; anti-ITGB1 antibody

### PRODUCT SPECIFICATIONS

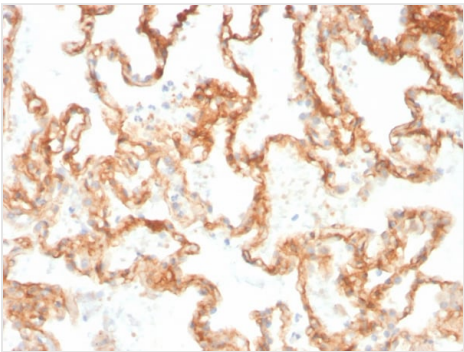
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|-------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                            | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Reactivity                                      | Human<br>Does not react with Mouse or Rat                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Clonality                                       | Monoclonal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Isotype                                         | IgG1, kappa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Clone Number                                    | ITGB1/3613                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Specificity                                     | Recognizes CD29. Binds to the cell membrane of T- and B- lymphocytes, monocytes, platelets, fibroblasts, endothelial cells, mast cells and smooth muscle cells. CD29 is an adhesion receptor and co-stimulatory molecule. This antigen was initially characterized as GPIIa on platelets and as the common b1 subunit of the very late antigen (VLA) protein family. CD29 forms a non-covalent heterodimeric complex with integrin alpha subunits. It also mediates adhesion to invasion and thrombospondin. |
| Purity/Purification                             | Purified Ab with BSA and Azide at 200ug/ml or Purified Ab with BSA and Azide at 200ug/ml or Purified Ab WITHOUT BSA and Azide at 1.0mg/ml                                                                                                                                                                                                                                                                                                                                                                    |
| Form/Format                                     | 200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.                                                                                                                                                                                                                                                                                                                                       |
| Sequence Length                                 | 798                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Applicable Applications for anti-ITGB1 antibody | IHC (Immunohistochemistry), ELISA                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Immunogen                                       | Purified Human beta 1 integrin from HT1080 fibrosarcoma cell extract                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Cellular Localization                           | Cell Surface                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Hu-chromosome Location                          | 10p11.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Positive Control                                | HT1080 whole cell lysate. HeLa cell line.                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Preparation and Storage                         | Antibody with azide: store at 2 to 8 degree C.<br>Antibody without azide: store at -20 to -80 degree C.<br>Antibody is stable for 24 months. Non-hazardous. No MSDS required.                                                                                                                                                                                                                                                                                                                                |

IMAGES



IHC (Immunohiostchemistry)  
Formalin-fixed, paraffin-embedded human kidney stained with CD29 Mouse Monoclonal Antibody (ITGB1/3613).

SDS-PAGE  
SDS-PAGE Analysis Purified CD29 Mouse Monoclonal Antibody (ITGB1/3613). Confirmation of Purity and Integrity of Antibody.



IHC (Immunohistochemistry)  
Formalin-fixed, paraffin-embedded human Lung stained with CD29 Mouse Monoclonal Antibody (ITGB1/3613).

ADDITIONAL INFORMATION

|            |                                                                                               |
|------------|-----------------------------------------------------------------------------------------------|
| References | Tamkun, J.W. et al. Cell 46: 271-282 (1986)   Loftus, J.C. et al. Science 249: 915-918 (1990) |
|------------|-----------------------------------------------------------------------------------------------|

NCBI AND UNIPROT INFORMATION

|                                  |                                                |
|----------------------------------|------------------------------------------------|
| NCBI GI #                        | 19743813                                       |
| NCBI GeneID                      | 3688                                           |
| NCBI Accession #                 | NP_002202.2                                    |
| NCBI GenBank Nucleotide #        | NP_002202.2                                    |
| UniProt Accession #              | P05556                                         |
| Molecular Weight                 | 110kDa (non-reduced); 130kDa (reduced)         |
| NCBI Official Full Name          | integrin beta-1 isoform 1A                     |
| NCBI Official Synonym Full Names | integrin subunit beta 1                        |
| NCBI Official Symbol             | ITGB1                                          |
| NCBI Official Synonym Symbols    | CD29; FNRB; MDF2; VLAB; GPIIA; MSK12; VLA-BETA |
| NCBI Protein Information         | integrin beta-1                                |
| UniProt Protein Name             | Integrin beta-1                                |

|                            |                          |
|----------------------------|--------------------------|
| UniProt Gene Name          | ITGB1                    |
| UniProt Synonym Gene Names | FNRB; MDF2; MSK12; GPIIA |
| UniProt Entry Name         | ITB1_HUMAN               |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/monoclonal/cd29-antibody-clone-itgb1-3613-immunohistochemistry-elisa/215385>