

## Product datasheet for **AM09002PU-S**

### Integrin beta 1 (ITGB1) Mouse Monoclonal Antibody [Clone ID: k2D5]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	k2D5
Applications:	ELISA, IHC, WB
Recommended Dilution:	<b>ELISA.</b> <b>Western blot:</b> 1/500-1/1,000. <b>Immunohistochemistry on Paraffin Sections:</b> 10 µg/ml.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Recombinant human CD29 (34-141 aa) purified from <i>E. coli</i>
Specificity:	The antibody recognizes Human CD29. Other species not tested.
Formulation:	PBS, pH 7.4 containing 0.02% Sodium Azide and 10% Glycerol State: Purified State: Liquid purified Ig fraction
Concentration:	lot specific
Purification:	Protein-G affinity chromatography
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	integrin subunit beta 1
Database Link:	<a href="#">Entrez Gene 3688 Human P05556</a>



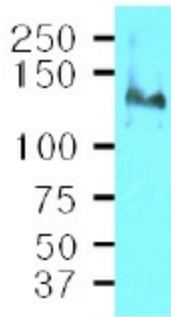
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**Background:**

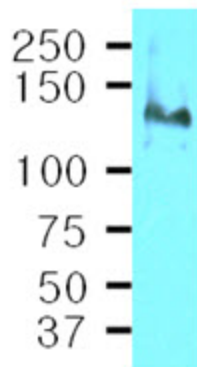
CD29, also known as Integrin beta 1, is the beta subunit found in the integrin families, forming a heterodimer integrin receptor through non-covalent bonding with various integrin alpha subunits. Integrin receptors are involved in the regulation of a variety of important biological functions, including embryonic development, wound repair, hemostasis, and prevention of programmed cell death. Interaction between integrins and the extracellular matrix lead to activation of signal transduction pathways and regulation of gene expression.

**Synonyms:**

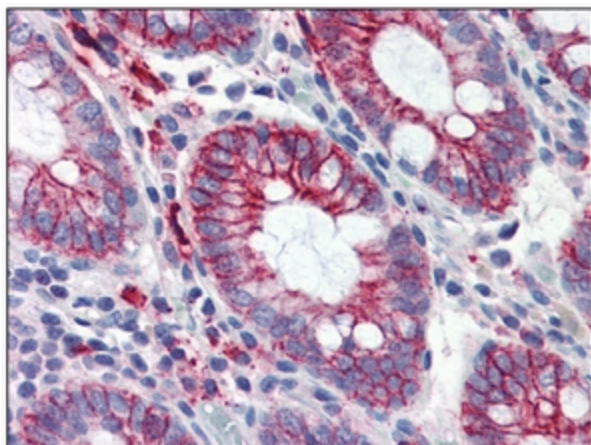
Fibronectin receptor subunit beta, Integrin VLA-4 subunit beta, ITGB1, FNRB, MDF2, MSK12

**Product images:**


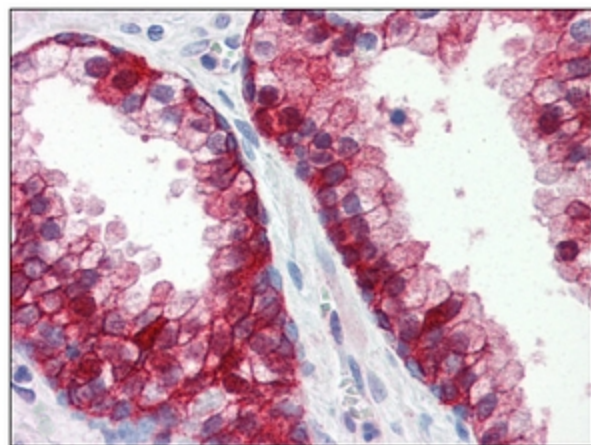
Cell lysates of U937 (40ug) were resolved by SDS-PAGE, transferred to NC membrane and probed with anti-human CD29 (1:500). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

**U937**


Western blot analysis on U937 cells: Cell lysates of U937 (40 ug) were resolved by SDS-PAGE, transferred to NC membrane and probed with anti-Human CD29 antibody (1/500). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.



Immunohistochemistry: -N CD29 antibody staining of Formalin-Fixed, Paraffin-Embedded Human Colon at 10 ug/ml followed by biotinylated anti-mouse IgG secondary antibody, alkaline phosphatase-streptavidin and chromogen.



Immunohistochemistry: -N CD29 antibody staining of Formalin-Fixed, Paraffin-Embedded Human Prostate at 10 ug/ml followed by biotinylated anti-mouse IgG secondary antibody, alkaline phosphatase-streptavidin and chromogen.