

## Product datasheet for **AM32089PU-N**

### Integrin beta 1 (ITGB1) Mouse Monoclonal Antibody [Clone ID: DF5]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	DF5
Applications:	ELISA, IHC, WB
Recommended Dilution:	<b>Western blotting:</b> 1/1000. <b>Immunohistochemistry on Frozen Sections</b> <b>Immunohistochemistry on Paraffin Sections</b> (See <i>Bernardini N. et al. 1997</i> ). <b>Other Immunoassays for cellular and tumor biology.</b>
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Wheat germ agglutinin binding glycoproteins of Human fibroblasts. Hybridoma produced by fusion between myeloma cells and Balb/c spleen cells.
Specificity:	The antibody reacts with the beta-1 subunit of the Integrin protein family and seems to be Human specific. It reacts with an extracellular epitope of the beta-1 integrin molecule.
Formulation:	PBS State: Purified State: Liquid purified Ig fraction Stabilizer: 1.0% (w/v) BSA Preservative: 0.09% (w/v) Sodium Azide
Concentration:	lot specific
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C.
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 or the integrin beta-1 belongs to the family of cell adhesion receptors. It was initially characterized independently as protein gpIIa appearing on platelets, as the common beta subunit of the very late activation antigen (VLA), and as a component of various protein complexes binding to extracellular matrix proteins. The CD29 is expressed at the cell surface exclusively as part of a heterodimer, in association with one of at least nine different integrin alpha subunits (alpha 1, alpha 2, alpha 3, alpha 4, alpha 5, alpha 6, alpha 7, alpha 8, and alpha v). With the exception of red blood cells and possible weak expression on granulocytes, CD29 is expressed nearly all cell and tissue types.

Monoclonal antibodies against this  $\beta$ 1-Integrin subunit are applicable in paraffin-embedded and frozen sections, immunoblotting and immunoprecipitation. Numerous studies have shown that  $\beta$ 1 -Integrins have a distinct and wide cellular distribution and that there are alterations in malignant cells in their beta-1 integrin expression.

**Synonyms:**

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