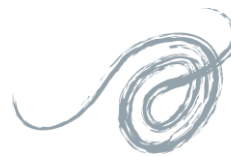


Product Sheet



QVQ

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Yalelaan 1
3584 CL Utrecht
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+31 30 253 3421

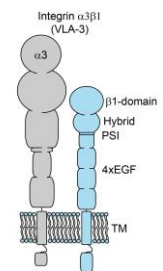
www.qvquality.com
KvK: 30274082
VAT: 8215.17.168
NL88 RABO0153194936

Integrin beta 1 (ITGB1)

Catalogue no.: Q75c
Clone name: FSH-14F8

Product: VHH directed against ITGB1

Target: Integrin $\beta 1$ (ITGB1 or CD29, UniProtKB P05556) is one of the subunits belonging to the family of integrins, heterodimeric cell surface receptors that play a pivotal role in cell adhesion, migration, growth and survival. The integrin family contains 18 α - and 8 β -subunits that can form 24 different integrin heterodimers. Via cooperation with other types of cell surface receptors (e.g. growth factor or G-protein coupled receptors), integrins can regulate intracellular signaling. Integrin beta-1 is the most abundant β -integrin forms dimers with at least 10 different alpha subunits to form for example the Very Late Antigens VLA-3 ($\alpha 3\beta 1$ integrin) and VLA-4 ($\alpha 4\beta 1$ integrin). Integrin $\beta 1$ is also found overexpressed in various types of cancer.¹⁻⁶



Source: Recombinant monoclonal VHH (Llama glama), purified from *S.cerevisiae* using affinity chromatography. Immunization with cells. Phage-display selection on captured recombinant antigen with total elution 5.

Specificity: Human Integrin $\beta 1$.

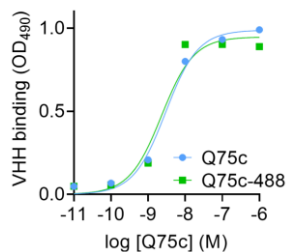
Formulation: 0.2 μm filtered solution in PBS.

Mol. Weight: 15.2 kDa
Ext. Coeff. (ϵ): 31065
A₂₈₀ at 1g/L: 2.0

Storage: Shipped on blue ice. Store at 4 °C or -20 °C (aliquots). Addition of 0.02% sodiumazide is optional.

Applications: ELISA, IF

Examples:



Binding of Q75c to recombinant ITGB1 in ELISA.

References:

- 1 Liu, S. et al. (2000) *J Cell Sci* 113:3563-71
- 2 Hood, J.D. and Cheresch, D.A. (2002) *Nat Rev Cancer* 2:91-100
- 3 Hynes, R.O. (1992) *Cell* 69:11-25
- 4 van der Flier, A. and Sonnenberg, A. (2001) *Cell Tissue Res* 305:285-298
- 5 Ramovs, V. et al. (2017) *Matrix Biol* 57-58:213-243
- 6 Sun, Q. et al. (2018) *Onco Targets Ther* 11:1787-1799