

# Product Sheet



# QVQ

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## 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  $\alpha$ - and 8  $\beta$ -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  $\beta$ -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.<sup>1-6</sup>

**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  $\beta 1$ .

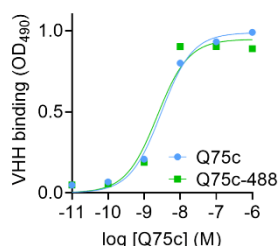
**Formulation:** 0.2  $\mu\text{m}$  filtered solution in PBS. The products are equipped with a C-terminal C-Direct tag with an unpaired cysteine for directional conjugation.

**Mol. Weight:** 15.2 kDa  
**Ext. Coeff. ( $\epsilon$ ):** 31065  $\text{M}^{-1} \text{cm}^{-1}$   
**A<sub>280</sub> at 1g/L:** 2.0

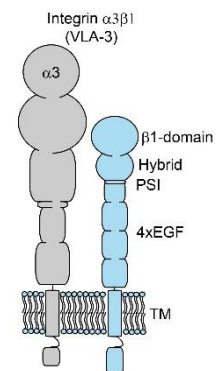
**Storage:** Shipped on blue ice. Store at 4 °C or -20 °C (aliquots). Addition of 0.02% sodiumazide is optional.

**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