## **Product Sheet**



Yalelaan 1 3584 CL Utrecht The Netherlands +31 30 253 3421

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

ТΜ

## Integrin α3β1 (VLA-3)

Catalogue no.: Clone name:	Q48c VHH5
Product: Target:	VHH directed against VLA-3 Integrin $\alpha 3\beta 1$ (VLA-3 or CD49c, UniProtKB P26006) belongs 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 that bind different ligands. 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) or VLA-4 ( $\alpha 4\beta 1$ integrin). VLA-3 functions as a receptor for collagen, laminin, and fibronectin and overexpressed in various types of cancer. <sup>1-7</sup>
Source:	Recombinant monoclonal VHH (Llama glama), purified from S.cerevisiae using affinity chromatography. Immunization with A431 cells. Phage- display selection on HeLa cells. <sup>8</sup>
Specificity:	Human Integrin α3β1. <sup>8</sup>
Formulation:	0.2 $\mu$ m filtered solution in PBS. The products are equiped with a C-terminal FLAG tag with an unpaired cysteine for directional conjugation.
Mol. Weight: Ext. Coeff. (ε): A <sub>280</sub> at 1g/L:	14.3 kDa 38055 M <sup>-1</sup> cm <sup>-1</sup> 2.7
Storage:	Shipped on blue ice. Store at 4°C or -20°C (aliquots). Addition of 0.02% sodiumazide is optional.
Applications:	ELISA, IF
Examples:	build H build

## **References:**

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- 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

7 Elices M.J. et al. (1991) J Cell Biol 112:169-181 8 Groot A.J. et al. (2009) Mol Immunol 46:2022-2028