

Product Sheet



QVQ

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HIV surface protein gp41

Catalogue no.: Q54c

Clone name: 11F1

Product: VHH directed against HIV gp41

Target: HIV-1 is an enveloped RNA lentivirus from the retroviridae family 1. The surface of virus expresses trimeric mushroom-shaped, HIV-1-Env glycoprotein complexes that facilitate virus uptake via interaction with CD4 and CCR5 or CXCR4 on host cells. Env is a glycosylated trimer of non-covalently linked gp120 and gp41 (UniprotKB Q53119), formed upon proteolytic cleavage of the precursor gp160.¹⁻⁶

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

Specificity: Q6 (2H10) binds to membrane proximal external region (MPER). Q8 (2E7) and Q54 (11F1) bind an epitope exposed just before adapting post-fusion conformation.^{7,8}

Formulation: 0.2 µm filtered solution in PBS.

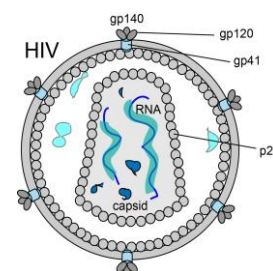
Mol. Weight: 14.9 kDa

Ext. Coeff. (ε): 26025

A₂₈₀ at 1g/L: 1.7

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

Applications: ELISA, virus neutralization



References:

- [Ganser-Pornillos B.K. et al. \(2008\) Curr Opin Struct Biol 18:203-217](#)
- [Bell N.M. and Lever A.M. \(2013\) Trends Microbiol 21:136-144](#)
- [de Marco A. et al. \(2010\) PLoS Pathog 6:e1001215](#)
- [Tamamura et al. \(2005\) Curr HIV res 3, 289-301](#)
- [Hallenberger et al. \(1992\) Nature 360, 358-361](#)
- [McCoy et al. \(2012\) J Exp Med 209, 1091-1103](#)
- [Strokappe et al. \(2012\) PLoS One, doi: 10.1371](#)
- [Lutje Hulsik et al. \(2013\) PLoS Pathog. doi: 10.1371](#)