Product Sheet





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

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

ap120

HIV Gag capsid protein p24

Catalogue no.: 076c 59H10 Clone name:

Product: VHH directed against HIV p24

HIV-1 is an enveloped RNA lentivirus from the retroviridae family 1. The viral Target:

> capsid contains RNA and enzymes is formed by organized p24 protein (UniProtKB Q9WMv8). p24 is formed upon cleavage of the P55 Gag protein, which is encoded by the HIV-1 gag gene. Other cleavage products are p17, p7, and p6 proteins, which are required for virus assembly. p24 is an indicator of HIV-1 infection and

viral load.1-4

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.

VHH 59H10 detects HIV Gag capsid protein p24 (CA) of 48/50 HIV strains with an Specificity:

apparent binding affinity of <1 nM. D type viruses were not detected very well.⁵

Formulation: 0.2 µm filtered solution in PBS. The products are equiped with a C-terminal C-

Direct tag with an unpaired cysteine for directional conjugation.

Mol. Weight: 14.1 kDa 22585 M⁻¹ cm⁻¹ Ext. Coeff. (ε):

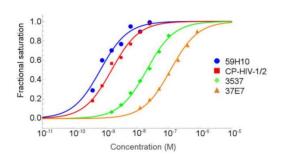
A₂₈₀ at 1g/L: 16

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

sodiumazide is optional.

Applications: ELISA, BLI

Examples:



Binding of Q76 (59H10) and Q82(37E7) to p24 as determined by biolayer interferometry. ⁶

References:

1 Ganser-Pornillos B.K. et al. (2008) Curr Opin Struct Biol 18:203–217 2 Bell N.M. and Lever A.M. (2013) Trends Microbiol 21:136-144

3 de Marco A. et al., (2010) PLoS Pathog 6:e1001215 4 Witt D.J. (1999) Clin Diagn Lab Immunol 6:369-376

5 Gray E.R. et al. (2017) ACS Infect Dis 3:479-491