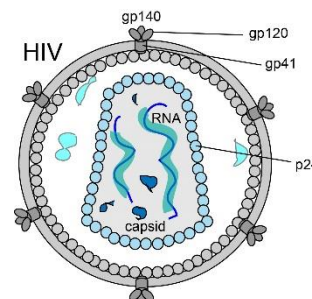


HIV Gag capsid protein p24

Catalogue no.: Q76, Q82 and Q83
Clone name: 59H10, 59H4 and 37E7
Product: VHH directed against HIV p24

Target: HIV-1 is an enveloped RNA lentivirus from the retroviridae family¹. The viral capsid contains RNA and enzymes is formed by organized p24 protein (UniProtKB [Q9WMv8](#)).¹⁻³ p24 is formed upon cleavage of the P55 Gag protein, which is encoded by the HIV-1 gag gene.¹⁻³ Other cleavage products are p17, p7, and p6 proteins, which are required for virus assembly.¹⁻³ p24 is an indicator of HIV-1 infection and viral load.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.

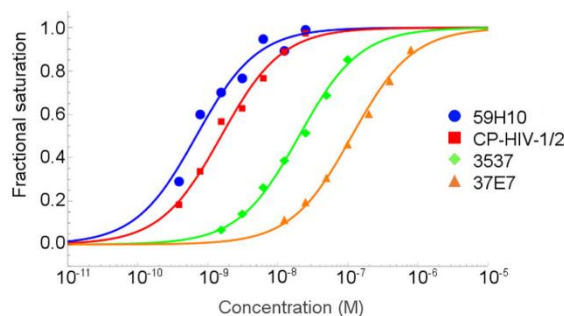
Specificity: VHH 59H10 detects HIV Gag capsid protein p24 (CA) of 48/50 HIV strains with an apparent binding affinity of <1 nM. D type viruses were not detected very well.⁵

Formulation: 0.2 µm filtered solution in PBS.

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

Applications: ELISA, biolayer interferometry⁵, surface acoustic wave⁶

Examples:



Binding of Q76 (59H10) and Q82(37E7) to p24 as determined by biolayer interferometry⁵

Products:

Cat. No.	Target	Tag	Label
Q76, Q82 and Q83	p24	Tagless	No label
Q76c, Q82c and Q83c	p24	C-direct	No label
Q76c-lab, Q82c-lab and Q83c-lab	p24	C-direct	Biotin / NOTA / HiLyte488 / IRDye800CW

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
- [Witt D.J.](#) (1999) *Clin Diagn Lab Immunol* 6:369-376
- [Gray E.R. et al.](#) (2017) *ACS Infect Dis* 3:479-491
- [Turbé et al.](#) (2017) *Sci Rep* 7:11971