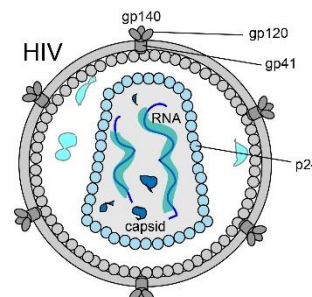


## HIV Gag capsid protein p24

**Catalogue no.:** Q76c  
**Quantity:** 250 µg  
**Product:** VHH directed against HIV p24

**Target:** HIV-1 is an enveloped RNA lentivirus from the retroviridae family<sup>1</sup>. The viral capsid contains RNA and enzymes is formed by organized p24 protein (UniProtKB [Q9WMv8](#)).<sup>1-3</sup> p24 is formed upon cleavage of the P55 Gag protein, which is encoded by the HIV-1 gag gene.<sup>1-3</sup> Other cleavage products are p17, p7, and p6 proteins, which are required for virus assembly.<sup>1-3</sup> p24 is an indicator of HIV-1 infection and viral load.<sup>4</sup>



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

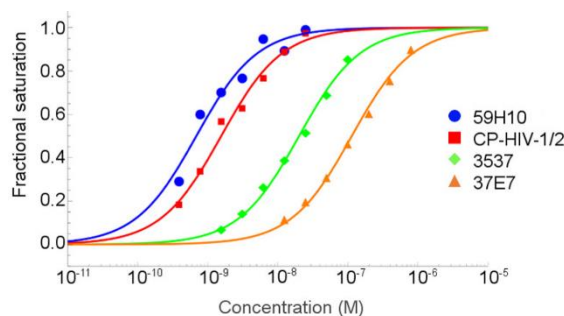
**Specificity:** Q76 detects HIV Gag capsid protein p24 (CA) of 48/50 HIV strains with an apparent binding affinity of <1 nM. D type viruses were not detected very well.<sup>5</sup>

**Formulation:** 0.2 µm filtered solution in PBS.  
**MW:** 14.1 kDa, **Ext. Coeff. (ε)<sub>280nm</sub>:** 22585 M<sup>-1</sup>·cm<sup>-1</sup>, **A<sub>280</sub> at 1g/L:** 1.60

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

**Applications:** ELISA, biolayer interferometry<sup>5</sup>, surface acoustic wave<sup>6</sup>

### Examples:



Binding of Q76 (59H10) and Q82(37E7) to p24 as determined by biolayer interferometry<sup>5</sup>

### References:

- [Ganser-Pornillos B.K.](#) et al. (2008) *Curr Opin Struct Biol* 18:203–217
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- [Turbé et al.](#) (2017) *Sci Rep* 7:11971