

Product Sheet



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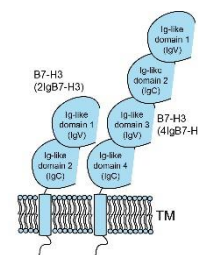
Yalelaan 1
3584 CL Utrecht
The Netherlands
+31 30 253 3421

www.qvquality.com
KvK: 30274082
VAT: 8215.17.168
NL88 RAB00153194936

Human B7 homolog 3 (B7-H3)

Catalogue no.: Q92c
Clone name: QB7-1F8

Product: VHH directed against B7-H3
Target: Human B7 homolog 3 (B7-H3) (UniProtKB Q5ZPR3, or CD276), is a member of the B7 family of immune proteins that provide signals for both stimulating and inhibiting T cell activation. Other family members include B7-1, B7-2, B7-H2, PD-L1 and PD-L2. B7 proteins are members of the immunoglobulin (Ig) superfamily, their extracellular domains contain 2 Ig-like domains and all members have short cytoplasmic domains. As one of the exceptions, and as a result of exon duplication B7-H3 is also expressed with 4 extracellular Ig-like domains. B7-H3 is normally expressed on antigen presenting cells but is also a tumor antigen that is widely expressed among human solid tumors.¹⁻⁴



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

Specificity: Human B7-H3.

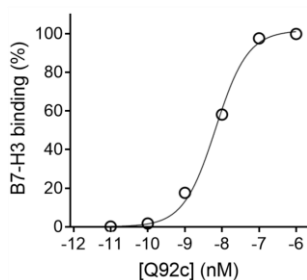
Formulation: 0.2 µm filtered solution in PBS. The products are equipped with a C-terminal C-Direct tag with an unpaired cysteine for directional conjugation.

Mol. Weight: 15.9 kDa
Ext. Coeff. (ε): 28545 M⁻¹ cm⁻¹
A₂₈₀ at 1g/L: 1.8

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

Applications: ELISA

Examples:



Binding of Q92c to recombinant B7-H3 ectodomain in ELISA.

References:

- 1 Nishimura, H. and T. Honjo (2001) Trends in Immunology 22:265
- 2 Vigdorovich V. et al. (2013) Structure 21:707-717
- 3 Castellanos JR. et al. (2017) Am J Clin Exp Immunol 6:66-75
- 4 Wang L. et al. (2014) Int J Cancer 134:2764-2771