

# Product Sheet



**QVQ**

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## Programmed Death Ligand 1 (PD-L2)

**Catalogue no.:** Q90c  
**Clone name:** QL2-1A4

**Product:** VHH directed against PD-L2  
**Target:** Butyrophilin B7-DC, also called programmed death ligand 2 (PD-L2) (UniProtKB Q9BQ51), 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 B7-H3. B7 proteins are members of the immunoglobulin (Ig) superfamily, their extracellular domains contain 2 Ig-like domains and all members have short cytoplasmic domains. PD-L2 has been identified as one of two ligands for programmed death-1 (PD-1), a member of the CD28 family of immunoreceptors. The PD-L2:PD-1 pathway is involved in the negative regulation of immune responses and in the regulation of peripheral tolerance.<sup>1-3</sup>

**Source:** Recombinant monoclonal VHH (Llama glama), purified from *S.cerevisiae* using affinity chromatography. Immunization with cancer cells. Phage-display selection on recombinant PD-L2 using total elution.

**Specificity:** Human PD-L2.

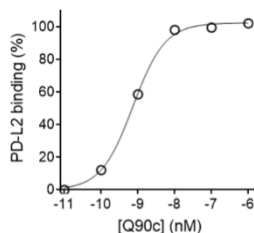
**Formulation:** 0.2 µm filtered solution in PBS. The products are equipped with a C-terminal C-Direct tag with an unpaired cysteine for directional conjugation.

**Mol. Weight:** 16 kDa  
**Ext. Coeff. (ε):** 28545 M<sup>-1</sup> cm<sup>-1</sup>  
**A<sub>280</sub> at 1g/L:** 1.8

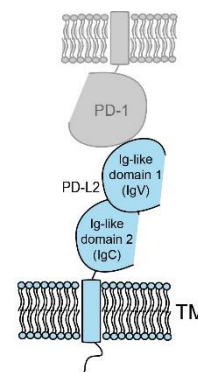
**Storage:** Shipped on blue ice. Store at 4 °C or -20 °C (aliquots). Addition of 0.02% sodiumazide is optional.

**Applications:** ELISA

**Examples:**



Binding of Q90 to recombinant PD-L2 ectodomain in ELISA.



## References:

- 1 Greenwald R.J. et al. (2005) *Annu Rev Immunol* 23:515-548
- 2 Lázár-Molnár E. et al. (2008) *Proc Natl Acad Sci U S A*. 105:10483-10488
- 3 Nishimura, H. and T. Honjo (2001) *Trends in Immunology* 22:265