

Product Sheet



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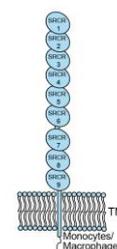
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KvK: 30274082
VAT: 8215.17.168
NL88 RABO0153194936

Scavenger receptor cysteine-rich type 1 protein M130 (CD163)

Catalogue no.: Q68c
Clone name: WHR-1A8

Product: VHH directed against CD163

Target: Scavenger receptor cysteine-rich type 1 protein M130, also referred to as CD163 (UniProtKB Q86VB7). It is a single transmembrane protein with a short intracellular domain and 9 extracellular cysteine-rich scavenger receptor class B (SRCR) domains. CD163 is expressed on monocytes and macrophages and is the receptor for hemoglobin/haptoglobin complexes, facilitating clearance of these complex and hereby protecting from oxidative stress and potentially heme recycling. Surface expression of CD163 in macrophages is considered to be a marker for M2 polarization, a alternatively activated macrophage involved in tissue repair and immunosuppression. The extracellular domain of CD163 can be shedded and upon inflammatory stimuli and is thought to act anti-inflammatory.¹⁻⁴



Source: Recombinant monoclonal VHH (Llama glama), purified from *S.cerevisiae*. Immunization with macrophages. Phage-display selection on recombinant CD163 using total elution.

Specificity: Human CD163.

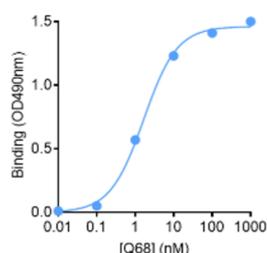
Formulation: 0.2 µm filtered solution in PBS.

Mol. Weight: 15,9 kDa
Ext. Coeff. (ε): 35995
A₂₈₀ at 1g/L: 2.3

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

Applications: ELISA, IF

Examples:



Binding of Q68 to immobilized recombinant CD163 in ELISA. Bound VHH were detected with rabbit-anti-VHH (QE19), followed by donkey-anti-rabbitHRP and OPD as substrate.

References:

- [1 Kristiansen, M. et al., \(2005\) Nature, 409\(6817\):198-201](#)
- [2 Lau, S.K. et al., \(2004\) Am J Clin Pathol 122\(5\):794-801](#)
- [3 Bertani, FR. et al., \(2017\) Sci Rep, 7\(1\):8965](#)
- [4 Droste, A. et al., \(1999\) Biochem Biophys Res Commun, 256\(1\):110-3](#)