Product Sheet

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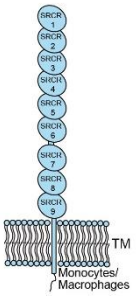
Scavenger receptor cysteine-rich type 1 protein M130 (CD163)

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.

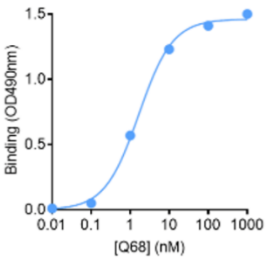
Formulation: 0.2 µm filtered solution in PBS. The products are equiped with a C-terminal C-Direct tag with an unpaired cysteine for directional conjugation.

Mol. Weight: 15.9 kDa
Ext. Coeff. (ε): 35995 M^{-1} cm^{-1}
A_{280} 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