

# Product Sheet



**QVQ**

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## Tetraspanin CD63

**Catalogue no.:** Q112  
**Clone name:** E-H9

**Product:** VHH directed against tetraspanin CD63

**Target:** CD63 (melanoma-associated antigen, LAMP-3 or ME491) is a tetraspanin and a member of the transmembrane 4 superfamily.<sup>1</sup> It is a cell surface-associated protein characterized by four transmembrane domains.<sup>1</sup> As a tetraspanin, CD63 forms networks with a variety of proteins, called tetraspanin-enriched microdomains (TEMs).<sup>2</sup> It is localized in different membranes of the cell, including the cell membrane and membranes of lysosomes and granules, including the platelet dense granules and the Weibel-Palade bodies of endothelial cells.<sup>3</sup> The complex localization pattern suggests a tightly regulated trafficking and distribution process. CD63 is often used as a platelet activation marker, as cell surface expression increases due to platelet granule secretion after platelet activation.<sup>4</sup>

**Source:** Immunization with and phage-display selection on purified extracellular domain of recombinant human CD63 using total elution. Recombinant monoclonal VHH (Llama glama), purified from HEK293-E 253 cells using rmp-Protein A affinity chromatography and Ion Exchange Chromatography.

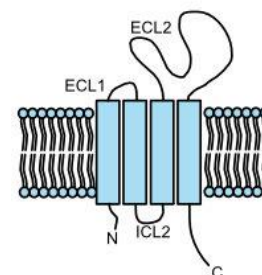
**Specificity:** Human CD63.  
Q112 (E-H9) targets a different amino acid sequence in CD63 than clone Q112 (E-B8).

**Formulation:** Tagless VHH in PBS.

**Mol. Weight:** 12.9 kDa  
**Ext. Coeff. (ε):** 24897 M<sup>-1</sup> cm<sup>-1</sup>  
**A<sub>280</sub> at 1g/L:** 1.9

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

**Applications:** ELISA, flow cytometry (FC)



**Note:**

This product has been generated and purified by Podiceps BV.

## References:

- 1 Pols and Klumperman, (2009) *Exp Cell Res* 315(9):1584-92
- 2 Nydegger et al., (2006) *J Cell Biol* 173(5):795-807
- 3 Kobayashi et al., (2000) *Mol Biol Cell* 11(5):1829-1843
- 4 Saboor et al., (2013) *Pak J Med Sci* 29(3):891-896