

Product: VHH directed to bone morphogenetic protein (BMP 2,4)
Catalogue nr.: QVQ35 (16C4 and QVQ36 (16C8)
Clone name: 16C4 and 16C8

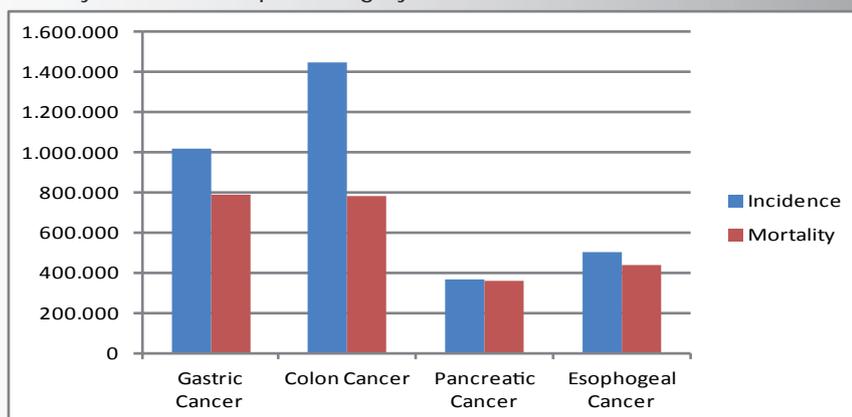
Specificity: VHH were selected from cDNA prepared out of lymphocytes of llama immunized with recombinant human BMP4 using phage display.
 VHH were characterized by several assays including ELISA and functional assays in cells (Calpe et al., 2015)

Sources: Recombinant monoclonal monohead or bihead VHH purified from E. coli or S. cerevisiae.

Formulation: Frozen 0.2 µm filtered solution of VHH in PBS (standard)
 On request larger amounts can be delivered in formulation suitable for the customer.
 Labeled VHH in 0.2 microliter filtered PBS solution, shipped on blue ice.

Storage: For both extended and non-labeled VHH, store at 4 oC or aliquoted and store at -20 oC.
 Labeled VHH should be stored preferably at 4 oC, in the dark (addition of 0.02% natrium azide is optional)

Applications: Elisa; specific inhibition of BMP4 (16C4) or BMP2 and BMP4 (16C8) (Calpe et al, 2015).
 Both 16C4 and 16C8 shown inhibition of tumor growth and both can be applied to image tumors and may be useful for optical surgery.



Incidence and mortality of Gastro-intestinal cancers (Source: Globocan Cancer Incidents Rates)

VHH name	Cat nr	Modality	Specificity	Possible applications
16C4	QVQ35		BMP4	Not available
16C4-GS10-16C4	QVQ35B10		BMP4	Not available
16C4	QVQ35C	C-FLEA	BMP4	VHH molecule that can be coupled to any maleimide containing compound like nIR or NOTA
16C4-IRDye800CW	QVQ35-IR	NIR-labeled	BMP4	Imaging in vivo
16C8	QVQ36		BMP2 & 4	Not available
16C18-GS10-16C8	QVQ36B10		BMP2 & 4	Not available
16C8	QVQ36C	C-FLEA	BMP2 & 4	VHH molecule that can be coupled to any maleimide containing compound like nIR or NOTA
16C8-IRDye800CW	QVQ36-IR	NIR-labeled	BMP2 & 4	Imaging in vivo

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