Product Sheet

QUALITY IN ANTIBODIES

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Near InfraRed-Dye 800CW (IR-Dye800CW)

Catalogue no.: Q93c
Clone name: QTI-1C9

Product: VHH directed against IR-Dye800CW
Target: IRDye 800CW is a water-soluble, near-infrared fluorescent dye that is often conjugated to biomolecules such as primary (single domain) antibodies, secondary antibodies, and peptides. These conjugates serve as probes in various applications, such as Western blotting, flow cytometry, immunohisto- or cytochemistry, In-Cell Western assays, protein arrays, in vivo imaging, and general optical probe development. IR-Dye800CW dye-conjugated probes are currently being investigated in several Phase I and Phase II clinical trials.[1-4]

Source: Recombinant monoclonal VHH (Llama glama), purified from S.cerevisiae using affinity chromatography. Immunization with labeled VHH and phage-display selection on conjugated protein using total elution.

Specificity: IR-Dye800CW.

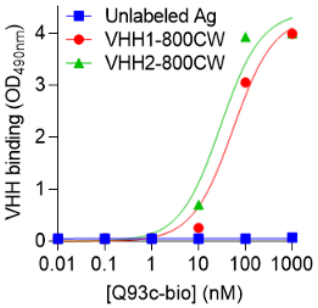
Formulation: 0.2 µm filtered solution in PBS. The products are equiped with a C-terminal C-Direct tag with an unpaired cysteine for directional conjugation.
This can for example be used to detect IRDye800CW-stained material with streptavidin^{HRP} or to recolor it to other fluorescence wavelengths.

Mol. Weight: 14.6 kDa
Ext. Coeff. (ε): 27055 M^{-1} cm^{-1}
A_{280} 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, IF, FC

Examples:



Binding of biotin-conjugated Q93c to two different IR-Dye800CW-conjugated VHH in ELISA.

References:

1 https://www.licor.com/bio/reagents/irdye-800cw-infrared-dyes
2 Xenaki KT et al, (2021) Theranostics. 11(11):5525-5538
3 Lamberts LE et al., (2017) Clin Cancer Res. 23(11):2730-2741
4 Moore LS et al., (2017) Mol Imaging Biol. 19(4):610-616