Product Sheet





Alpha (blue) and beta (grey) chains of tubulin.

Yalelaan 1 3584 CL Utrecht The Netherlands +31 30 253 3421 www.qvquality.com KvK: 30274082 VAT: 8215.17.168 NL88 RABO0153194936

Tubulin

Catalog no.: Q128c

Clone name: VHHmm, VHH#2

Product: VHH directed against tubulin

Target: Tubulin proteins are essential components of the cytoskeleton in cells.

Tubulin exists mainly as two closely related globular proteins, α -tubulin and β -tubulin, which polymerize into dynamic microtubules. Microtubules are involved in various cellular processes, including cell division, intracellular transport, and maintenance of cell shape. Additionally, tubulin's role in intracellular transport is vital for the movement of organelles and vesicles within cells. Understanding tubulin function is key to developing treatments

for diseases like cancer, where cell division is dysregulated.

Source: Recombinant monoclonal VHH (Llama glama), purified from S. cerevisiae

using affinity chromatography. Immunization with MCF7 cells⁴ and phage-

display selection on bovine brain tubulin using total elution.⁵

Specificity: Tubulin.

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. \\

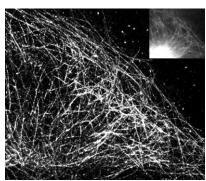
Mol. Weight: 14.6 kDa Ext. Coeff. (ε): 28545 A₂₈₀ at 1g/L: 1.95

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

azide is optional.

Applications: ELISA, IF, super resolution microscopy

Examples:



Binding of Q128c to tubulin fibers, as imaged using dSTORM superresolution microscopy.

References:

- 1 Nogales et al., (1998) Nature. 391, 199-203
- 2 Akhmanova and Kapitein, (2022) Nat Rev Mol Cell Biol. 23(8), 541-558
- 3 Jaworski, Hoogenraad and Akhmanova (2008) Int J Biochem Cell Biol. 40(4):619-37
- 4 Kijanka et al., (2013) Eur. J. Nucl. Med. Mol. Imag. $40(4){:}1718$
- 5 Mikhaylova et al., (2015) Nat Commun. 6:7933