# Product Sheet

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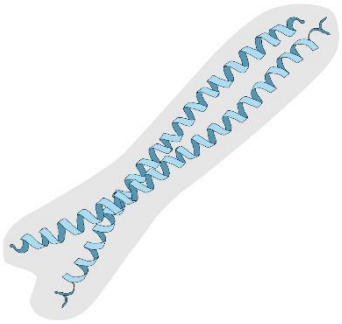
## Vimentin

**Catalogue no.:** Q60c
**Clone name:** FSH-5G1

**Product:** VHH directed against Vimentin
**Target:** Vimentin, UniProtKB P08670) is a class III intermediate filament (IF) protein, predominantly found in mesechymal cells. IFs are, besides actin and tubulin, one of the basic cytoskeletal component. Vimentin has a size of 466 amino acids or 57 kDa protein and is encoded by the VIM gene. Vimentin contains three linked coiled-coil domains and can be phosphorylated on serines and threonines. Vimentins can organize into unit-length filaments (ULFs) with a diameter of ~11 nm by longitudinal selfassociation of four octamers. Structures shown are derived from PDB files 3UF1 and 5WHF.[1-4]



**Source:** Recombinant monoclonal VHH (Llama glama), purified from S.cerevisiae using affinity chromatography. Immunization with muscle cells. Phage-display selection on captured Vimentin with total elution.

**Specificity:** Human Vimentin.[5]

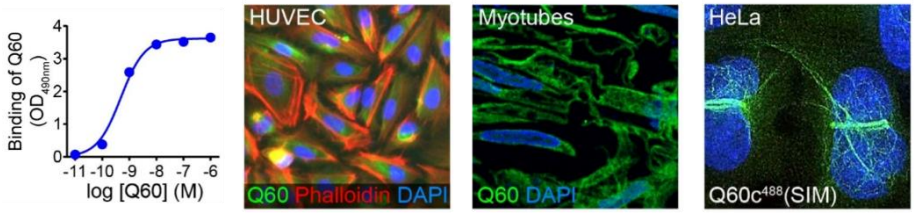
**Formulation:** 0.2 µm filtered solution in PBS. The products are equiped with a C-terminal C-Direct tag with an unpaired cysteine for directional conjugation.

**Mol. Weight:** 14.6 kDa
**Ext. Coeff. (ε):** 23045 $M^{-1}$ $cm^{-1}$
**$A_{280}$ at 1g/L:** 1.6

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

**Applications:** ELISA, IF, IHC

**Examples:**




*Binding of Q60 to immobilized recombinant vimentin in ELISA, HUVEC cells in IF and myotubes in IHC. Bound VHHs were detected using rabbit-anti-VHH and donkey-anti-rabbit secondairy antibodies. Directionally conjugated Q60c in HeLa cells as imaged by structured illumination microscopy (SIM).*

**References:**

1 Ferrari et al., (1986) Mol Cell Biol 6, 3614-3620
2 Sokolova et al., (2006) PNAS 103, 16206-16211
3 Aziz et al., (2012) J Biol chem 287, 28349-28361
4 Obiero et al., (2018) FEBS J, doi: 10.1111/febs.14585
5 van Beijnum et al., (2022) Nat Comm, 13, 2842