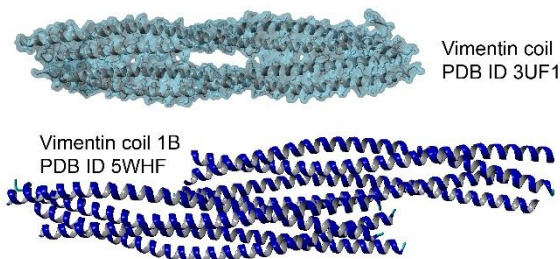


Vimentin

Catalogue no.: Q60
Clone name: 5G1

Product: VHH directed against Vimentin

Target: Vimentin, UniProtKB [P08670](#)) is a class III intermediate filament (IF) protein, predominantly found in mesenchymal cells ¹. 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 ¹. 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 ~11nm by longitudinal self-association of four octamers ². Structures shown are derived from PDB files 3UF1 and 5WHF ^{3,4}.



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.

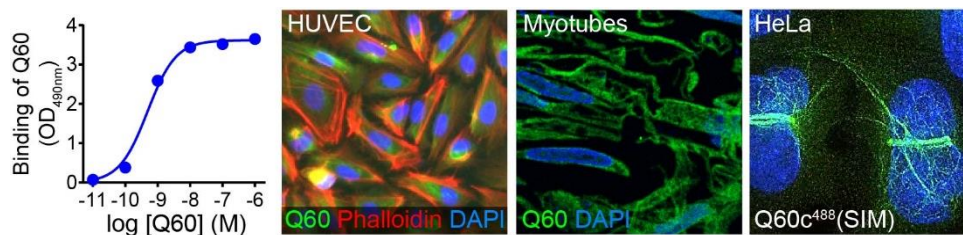
Specificity: Human Vimentin.

Formulation: 0.2 µm filtered solution in PBS.

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 secondary antibodies. Directionally conjugated Q60c in HeLa cells as imaged by structured illumination microscopy (SIM).

Products:

Cat. No.	Target	Tag	Label
Q60	Vimentin	Tagless	No label
Q60c	Vimentin	C-direct	No label
Q60c-lab	Vimentin	C-direct	Biotin / NOTA / HiLyte488 / IRDye800CW

References:

- [Ferrari et al.](#), (1986) Mol Cell Biol 6, 3614-3620
- [Sokolova et al.](#), (2006) PNAS 103, 16206-16211
- [Aziz et al.](#), (2012) J Biol chem 287, 28349-28361
- [Obiero et al.](#), (2018) FEBS J, doi: 10.1111/febs.14585