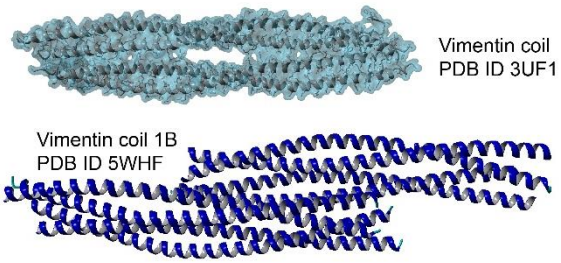
Anti-Vimentin

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 mesechymal 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 selfassociation 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.*
Immunization with. Phage-display selection on captured Vimentin with total elution.

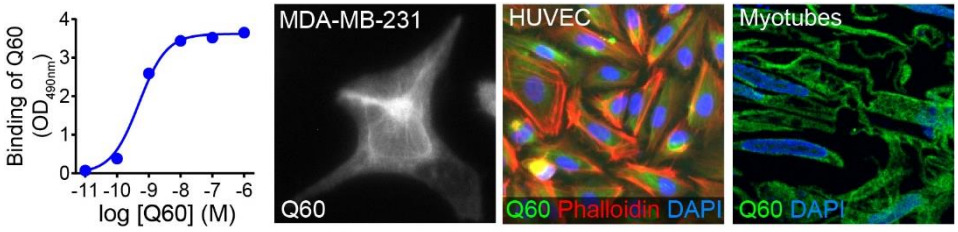
Specificity: Human Vimentin.

Formulation: Frozen 0.2 µm filtered solution of VHH 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, MDA-MB-231 breast cancer and HUVEC cells in IF and myotubes in IHC. Bound VHHs were detected using rabbit-anti-VHH and donkey-anti-rabbit secondairy antibodies.

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:

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