

Anti-Gelsolin [GsnVHH 13] Standard Size Ab02737-16.159

This chimeric human antibody was made using the variable domain sequences of the original VHH format, for improved compatibility with existing reagents, assays and techniques.

Isotype and Format: Human IgA-Fc Fusion

Clone Number: GsnVHH 13

Alternative Name(s) of Target: GSN; AGEL; ADF; Actin-depolymerizing factor; Brevin

UniProt Accession Number of Target Protein: P06396

Published Application(s): IP, WB, ELISA, IF

Published Species Reactivity: Human

Immunogen: The original antibody was generated by immunizing a llama subcutaneously with human recombinant gelsolin.

Specificity: This antibody recognizes Ca²⁺ activated gelsolin. This antibody specifically recognizes and epitope in the G4-G5 domain of gelsolin.

Application Notes: Gelsolin is a multifunctional actin-binding protein that controls cellular actin organization and migration. The original VHH version of this antibody binds calcium activated gelsolin with a K_d of ~10 nM. The specificity of the antibody towards gelsolin was confirmed with ELISA. GsnVHH 13 expressed as intrabodies immunoprecipitate endogenous gelsolin. His-tagged GsnVHH 13 can be used to identify gelsolin in a western blot assay. This antibody can trace gelsolin in membrane ruffles of EGF-stimulated MCF-7 cells and delay cell migration without affecting F-actin severing/capping or actin nucleation activities by gelsolin as demonstrated by immunofluorescence staining. (PMID:20140750).

Antibody First Published in: Abbeele et al. A llama-derived gelsolin single-domain antibody blocks gelsolin-G-actin interaction. Cell Mol Life Sci. 2010 May;67(9):1519-35. [PMID:20140750](#)

Note on publication: Describes the generation, characterization, epitope mapping and crystal structure of this antibody.

Product Form

Size: 100 µg Purified antibody.

Purification: Affinity Purified using a recombinant lectin column

Supplied In: PBS with 0.02% Proclin 300.

Storage Recommendation: Store at 4°C for up to 3 months. For longer storage, aliquot and store at -

20°C.

Concentration: 1 mg/ml.

Important note – This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.