Nanobody toolbox for your research

PRODUCT SPECIFICATION

Recombinant anti-human Cortactin FHP nanobody 13.



Catalogue number: sdAb-Cortactin FHP-Nb13

Background

Cortactin is a multidomain cytoskeletal protein and a crucial component in cell migration (via Arp 2/3) and cancer cell invasion and metastasis. Cortactin is an early constituent of podosomes (immune cells) and invadopodia (cancer cells), structures/organelles used by cells to degrade the extracellular matrix and migrate to a site of infection (immune cells) or escape from a primary tumor (cancer cells). The protein is overexpressed in various types of cancer.

Applications:Suitable for WB, immunoprecipitation from cell extracts, ELISA. This product is for
R&D use only, not for drug, diagnostic, therapeutic, household, or other uses.

Source and properties:

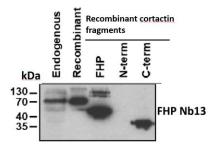
Cortactin FHP Nb13 was raised by immunizing an alpaca with human His₆- tagged cortactin lacking the N-terminal NTA domain and the C-terminal SH3 region. The nanobody binds to this cortactin fragment with an **approximate affinity of 0.77** μ **M (determined by ITC).** In further epitope mapping experiments it can be observed that the <u>nanobody recognizes the proline-rich segment</u>. Does not cross-react with HS-1.

1 2 3 4 5 6 Helical Proline-rich

<u>Availability</u> :	Cortactin FHP nanobody 13 comes with a COOH-terminal HA or Myc epitope tag. Available in 100 μ g, 500 μ g, 1000 μ g quantities. For bulk amounts, please inquire.
Expression host:	VHH single domain antibody purified from <i>E. coli</i> .
<u>Cross reactivity</u> :	Reactivity of this nanobody with cortactin from other species has not been tested.
<u>Storage buffer</u> :	20 mM Tris-HCl pH 8.0, 150 mM NaCl, 1mM DTT, 60 % glycerol. Store at -20°C. The sample will not freeze. Maintain sample in cold environment during transport to increase longevity.
<u>Stability</u> :	Store at -20°C upon arrival. For long term storage, aliquot and store at -80°C. Avoid repeated freeze/thaw cycles.

Product citations:

Bertier L, et al. Biomed Pharmacother. 2018;102:230-241.



Detection of endogenous (SCC-61 head and neck squamous cell carcinoma cells) and recombinant cortactin using V5-tagged FHP Nb13.