

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 nanobody recognizes the proline-rich segment. Does not cross-react with HS-1.



Availability: 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 *E. coli*.

Cross reactivity: Reactivity of this nanobody with cortactin from other species has not been tested.

Storage buffer: 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.

Stability: Store at -20°C upon arrival. For long term storage, aliquot and store at -80°C. Avoid repeated freeze/thaw cycles.

Product citations:

Bertier et al., in press (2018).