Cortactin Antibody

Store at -20°C

#3502

For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: WB, IHC-P
Reactivity: H M R Mk
Sensitivity: Endogenous
MW (kDa): 80, 85
Source: Rabbit
UniProt ID: #Q14247
Entrez-Gene Id: 2017

Product Usage Information
Application
Western Blotting
Immunohistochemistry (Paraffin)
Dilution
1:1000
1:50

Storage
Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at –20°C. Do not aliquot the antibody.

Specificity / Sensitivity
Cortactin Antibody detects endogenous levels of total cortactin protein.

Source / Purification
Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to the carboxy-terminal residues of human cortactin. Antibodies are purified by protein A and peptide affinity chromatography.

Background
Cortactin is a cortical actin binding protein. Its amino-terminal acidic domain (NTA) associates with the Arp2/3 and WASP complex at F-actin branches. The central region of the protein contains six repeats of 37 amino acids that are important in F-actin binding and cross-linking. The carboxy-terminus contains a proline-rich region and an SH3 domain that can interact with numerous scaffolding proteins, such as CortBP1 and Shank3 (1,2). Cortactin is involved in signaling events that coordinate actin reorganization during cell movement. The human cortactin homologue EMS1 is overexpressed in numerous cancers with poor patient prognosis (3). Cortactin may also play an important role in the organization of transmembrane receptors at postsynaptic densities (PSD) and tight junctions by linking scaffolding proteins to the actin network (4).

Cortactin is phosphorylated at tyrosine residues 421, 466, and 482. Tyrosine phosphorylation of cortactin regulates cell motility (5), rac1-mediated actin dynamics (6), cadherin-dependent adhesion (7), chemokine trafficking and chemokine-dependent chemotaxis (8).

Background References

Species Reactivity
Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer
IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key
WB: Western Blotting
IHC-P: Immunohistochemistry (Paraffin)

Cross-Reactivity Key

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