

**Cortactin Antibody(Ascites)**  
**Mouse Monoclonal Antibody (Mab)**  
**Catalog # AM2001a**

**Specification**

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**Cortactin Antibody(Ascites) - Product Information**

Application	WB,E
Primary Accession	<a href="#">Q14247</a>
Other Accession	<a href="#">NP_005222.2</a>
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	IgM
Calculated MW	61586

**Cortactin Antibody(Ascites) - Additional Information**

**Gene ID** 2017

**Other Names**

Src substrate cortactin, Amplexin, Oncogene EMS1, CTTN, EMS1

**Target/Specificity**

Purified His-tagged Cortactin protein(Fragment) was used to produced this monoclonal antibody.

**Dilution**

WB~~1:1000~8000

**Format**

Mouse monoclonal antibody supplied in crude ascites with 0.09% (W/V) sodium azide.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

Cortactin Antibody(Ascites) is for research use only and not for use in diagnostic or therapeutic procedures.

**Cortactin Antibody(Ascites) - Protein Information**

**Name** CTTN

**Synonyms** EMS1

**Function** Contributes to the organization of the actin cytoskeleton and cell shape (PubMed:[21296879](#)). Plays a role in the formation of lamellipodia and in cell migration. Plays a role in the regulation of neuron morphology, axon growth and formation of neuronal growth cones (By

similarity). Through its interaction with CTTNBP2, involved in the regulation of neuronal spine density (By similarity). Plays a role in focal adhesion assembly and turnover (By similarity). In complex with ABL1 and MYLK regulates cortical actin-based cytoskeletal rearrangement critical to sphingosine 1-phosphate (S1P)-mediated endothelial cell (EC) barrier enhancement (PubMed:[20861316](#)). Plays a role in intracellular protein transport and endocytosis, and in modulating the levels of potassium channels present at the cell membrane (PubMed:[17959782](#)). Plays a role in receptor-mediated endocytosis via clathrin-coated pits (By similarity). Required for stabilization of KCNH1 channels at the cell membrane (PubMed:[23144454](#)). Plays a role in the invasiveness of cancer cells, and the formation of metastases (PubMed:[16636290](#)).

#### **Cellular Location**

Cytoplasm, cytoskeleton. Cell projection, lamellipodium. Cell projection, ruffle. Cell projection, dendrite. Cell projection {ECO:0000250|UniProtKB:Q66HL2}. Cell membrane; Peripheral membrane protein; Cytoplasmic side. Cell projection, podosome {ECO:0000250|UniProtKB:Q01406}. Cell junction {ECO:0000250|UniProtKB:Q66HL2}. Cell junction, focal adhesion {ECO:0000250|UniProtKB:Q66HL2}. Membrane, clathrin-coated pit {ECO:0000250|UniProtKB:Q66HL2}. Cell projection, dendritic spine. Cytoplasm, cell cortex Endoplasmic reticulum {ECO:0000250|UniProtKB:Q01406}. Note=Colocalizes transiently with PTK2/FAK1 at focal adhesions (By similarity) Associated with membrane ruffles and lamellipodia. In the presence of CTTNBP2NL, colocalizes with stress fibers (By similarity). In the presence of CTTNBP2, localizes at the cell cortex (By similarity). In response to neuronal activation by glutamate, redistributes from dendritic spines to the dendritic shaft (By similarity). Colocalizes with DNM2 at the basis of filopodia in hippocampus neuron growth zones (By similarity). {ECO:0000250|UniProtKB:Q60598, ECO:0000250|UniProtKB:Q66HL2}

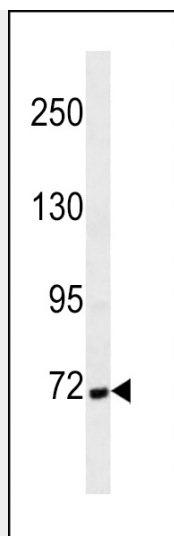
#### **Cortactin Antibody(Ascites) - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

#### **Cortactin Antibody(Ascites) - Images**





Cortactin Antibody (Cat. #AM2001a) western blot analysis in MDA-MB231 cell line lysates (35µg/lane). This demonstrates the Cortactin antibody detected the Cortactin protein (arrow).

#### **Cortactin Antibody(Ascites) - Background**

This gene is overexpressed in breast cancer and squamous cell carcinomas of the head and neck. The encoded protein is localized in the cytoplasm and in areas of the cell-substratum contacts. This gene has two roles: (1) regulating the interactions between components of adherens-type junctions and (2) organizing the cytoskeleton and cell adhesion structures of epithelia and carcinoma cells. During apoptosis, the encoded protein is degraded in a caspase-dependent manner. The aberrant regulation of this gene contributes to tumor cell invasion and metastasis. Three splice variants that encode different isoforms have been identified for this gene.

#### **Cortactin Antibody(Ascites) - References**

Croucher, D.R., et al. *Mol. Cell. Biol.* 30(21):5057-5070(2010)  
Eiseler, T., et al. *J. Biol. Chem.* 285(24):18672-18683(2010)  
Xu, X.Z., et al. *Mod. Pathol.* 23(2):187-196(2010)  
Saitoh, Y., et al. *Int. J. Oncol.* 35(6):1277-1288(2009)  
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