

#### Cortactin Rabbit mAb

**Catalog # AP75280** 

# **Specification**

### Cortactin Rabbit mAb - Product Information

Application
Primary Accession
Reactivity
Host
Clonality
Calculated MW

WB, IHC-P, IHC-F, IP, ICC <u>014247</u> Human, Mouse, Rat Rabbit Monoclonal Antibody 61586

## **Cortactin Rabbit mAb - Additional Information**

**Gene ID 2017** 

**Other Names** 

CTTN

**Dilution** 

WB~~1/500-1/1000 IHC-P~~N/A

IHC-F~~N/A

IP~~N/A

ICC~~N/A

#### **Format**

50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% sodium azide and 0.05% BSA.

#### Storage

Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

# **Cortactin Rabbit mAb - Protein Information**

Name CTTN

Synonyms EMS1

## **Function**

Contributes to the organization of the actin cytoskeleton and cell shape (PubMed:<a href="http://www.uniprot.org/citations/21296879" target="\_blank">21296879</a>). 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:<a href="http://www.uniprot.org/citations/20861316" target="\_blank">20861316</a>). Plays a role



in intracellular protein transport and endocytosis, and in modulating the levels of potassium channels present at the cell membrane (PubMed:<a

href="http://www.uniprot.org/citations/17959782" target="\_blank">17959782</a>). Plays a role in receptor-mediated endocytosis via clathrin-coated pits (By similarity). Required for stabilization of KCNH1 channels at the cell membrane (PubMed:<a

href="http://www.uniprot.org/citations/23144454" target="\_blank">23144454</a>). Plays a role in the invasiveness of cancer cells, and the formation of metastases (PubMed:<a href="http://www.uniprot.org/citations/16636290" target=" blank">16636290</a>).

## **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 Rabbit mAb - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

## Cortactin Rabbit mAb - Images







