

Cortactin Antibody

Rabbit mAb Catalog # AP90649

Product Information

Application Primary Accession Reactivity Clonality Other Names	WB, IHC, IF, FC, ICC, IP, IHF <u>Q14247</u> Rat, Human, Mouse Monoclonal Amplaxin; cortactin; CTTN; EMS1; Oncogene EMS1; Src substrate cortactin; SRC8;
lsotype	Rabbit IgG
Host	Rabbit
Calculated MW	61586

Additional Information

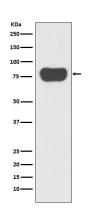
Dilution Purification Immunogen	WB 1:5000~1:10000 IHC 1:50~1:200 ICC/IF 1:50~1:200 IP 1:20 FC 1:20 Affinity-chromatography A synthesized peptide derived from human Cortactin
Description	Cortactin a cytoskeletal protein that that is involved in coordinating actin reorganization during cell movement. Localizes at the leading edge of lamellipodia during cell migration. Its amino-terminal acidic domain associates with the Arp2/3 and WASP complex at F-actin branches.
Storage Condition and Buffer	

Protein Information

Name	CTTN
Synonyms	EMS1
Function	Contributes to the organization of the actin cytoskeleton and cell shape (PubMed: <u>21296879</u>). 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: <u>20861316</u>). Plays a role in intracellular protein transport and endocytosis, and in modulating the levels of potassium channels present at the cell membrane (PubMed: <u>17959782</u>). Plays a role in receptor-mediated

	endocytosis via clathrin-coated pits (By similarity). Required for stabilization of KCNH1 channels at the cell membrane (PubMed: <u>23144454</u>). Plays a role in the invasiveness of cancer cells, and the formation of metastases (PubMed: <u>16636290</u>).
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}. 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:Q66HL2}

Images



Western blot analysis of Cortactin expression in HeLa cell lysate.

Image not found : 202311/AP90649-IHC.jpg

Immunohistochemical analysis of paraffin-embedded human breast cancer, using Cortactin Antibody.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.