

Cortactin Rabbit mAb

Catalog # AP75280

Product Information

Application	WB, IHC-P, IHC-F, IP, ICC
Primary Accession	Q14247
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Monoclonal Antibody
Calculated MW	61586

Additional Information

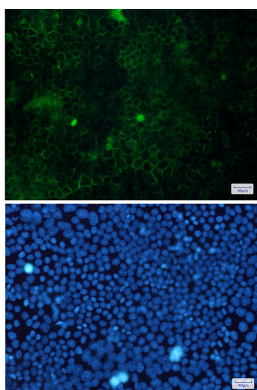
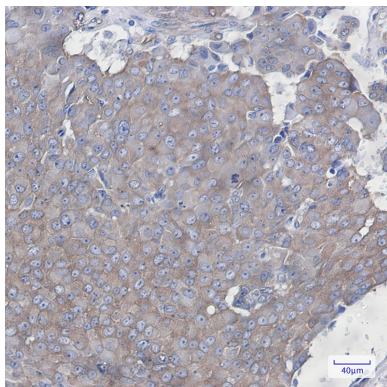
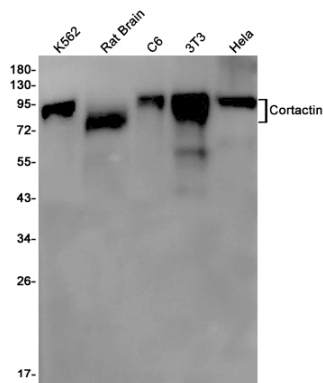
Gene ID	2017
Other Names	CTTN
Dilution	WB~~1/500-1/1000 IHC-P~~N/A IHC-F~~N/A IP~~N/A ICC~~N/A
Format	Liquid

Protein Information

Name	CTTN
Synonyms	EMS1
Function	<p>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).</p>
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}

Images



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