

Rabbit Cortactin Polyclonal Antibody | anti-CTTN antibody

Cortactin Antibody

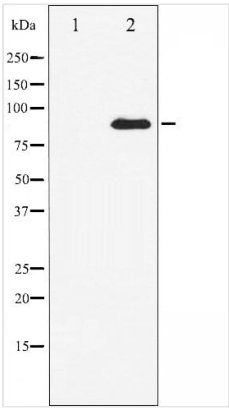
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA322417	Rabbit	Human, Mouse, Rat	ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

Cortactin; Polyclonal Antibody; Cortactin Antibody; Amplexin; CTTN; EMS 1; EMS1; FLJ34459; Mammary tumor and squamous cell carcinoma associated; Oncogene EMS1; p80/85 src substrate; Src substrate cortactin; SRC8_HUMAN; anti-CTTN antibody

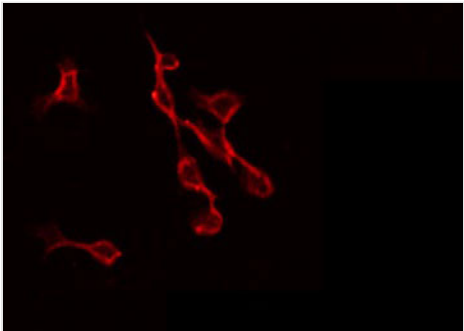
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	Cortactin antibody detects endogenous levels of total Cortactin
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	634
Applicable Applications for anti-CTTN antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human Cortactin
Subcellular Location	Cytoplasm > Cytoskeleton. Cell Projection > Lamellipodium. Cell projection > Ruffle. Associated with membrane ruffles and lamellipodia.
Predicted Cross Reactivity	Rabbit, Dog, Xenopus
Similarity	Rabbit (83%), Dog (100%), Xenopus (100%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



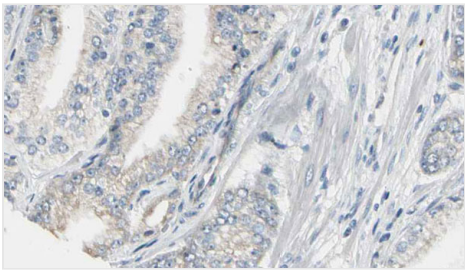
WB (Western Blot)

Western blot analysis of Cortactin expression in COS7 whole cell lysates, The lane on the left is treated with the antigen-specific peptide.



IF (Immunofluorescence)

AAA322417 staining HeLa by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.



IHC (Immunohistochemistry)

AAA322417 at 1/100 staining Human prostate tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

ADDITIONAL INFORMATION

Related Product Information for anti-CTTN antibody	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. 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 the invasiveness of cancer cells, and the formation of metastases (PubMed:16636290). 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). Subunit Structure: Interacts with SHANK2 and SHANK3 (via its SH3 domain). Also interacts with FGD1. Identified in a complex containing FGFR4, NCAM1, CDH2, PLCG1, FRS2, SRC, SHC1, GAP43 and CTTN. Interacts with ABL2 (By similarity). Interacts with KCNA2 (via non-phosphorylated C-terminus) (PubMed:12151401). Interacts with PLXDC2 and SRCIN1. Interacts with SAMSN1 (via SH3 domain). Interacts (via SH3 domain) with ASAP1 (via Pro-rich region). Interacts (via SH3 domain) with DNM2 (By similarity). Interacts with ACTN1 (By similarity). Interacts with FER (PubMed:9722593). Forms a complex made of ABL1 and MYLK. Interacts with CTTNBP2NL; this interaction may target CTTN to stress fibers. Interacts with CTTNBP2; this interaction may target CTTN at the cell cortex or dendritic spines. Interacts with KCNH1 (PubMed:23144454). Post-translational Modifications: Phosphorylated by PKN2 at both serine and threonine residues in a GTP-bound Rac1-dependent manner in hyaluronan-induced astrocytes and hence down-regulated CTTN ability to associates with filamentous actin (By similarity). Phosphorylated on tyrosine residues in response to CHRM1 activation (By similarity). Phosphorylated by PTK2/FAK1 in response to cell adhesion (By similarity). Phosphorylated by FER. Tyrosine phosphorylation in transformed cells may contribute to cellular growth regulation and transformation. Phosphorylated in response to FGR activation. Phosphorylation by SRC promotes MYLK binding. Similarity: The SH3 motif may mediate binding to the cytoskeleton.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	296080746
NCBI GeneID	2017
NCBI Accession #	NP_001171669.1
NCBI GenBank Nucleotide #	NM_001184740.1
UniProt Accession #	Q14247; Q8N707; Q96H99
Molecular Weight	Observed: 85 kDa Predicted: 62 kDa
NCBI Official Full Name	src substrate cortactin isoform c
NCBI Official Synonym Full Names	cortactin
NCBI Official Symbol	CTTN
NCBI Official Synonym Symbols	EMS1
NCBI Protein Information	src substrate cortactin
UniProt Protein Name	Src substrate cortactin
UniProt Gene Name	CTTN
UniProt Synonym Gene Names	EMS1

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

