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Rabbit Anti-Cortactin antibody

SL2760R

Product Name:	Cortactin
Chinese Name:	皮层肌动蛋白抗体
Alias:	Amplaxin; CTTN; EMS 1; EMS1; Mammary tumor and squamous cell carcinoma associated; Oncogene EMS1; p80/85 src substrate; Src substrate cortactin; SRC8_HUMAN.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Chicken,Dog,Cow,Horse,Rabbit,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-F=1:400-800IF=1:100-500（Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	61kDa
Cellular localization:	cytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human Cortactin:481-550/550
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	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. [provided by RefSeq].

Function:
Contributes to the organization of the actin cytoskeleton and cell structure. Plays a role in the regulation of cell migration. Plays a role in the invasiveness of cancer cells, and the formation of metastases.

Subunit:
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 PLXDC2 and SRCIN1. Interacts with SAMSN1 (via SH3 domain). Interacts (via SH3 domain) with ASAP1 (via Pro-rich region). Interacts with DNM2 and FER. Binds to MYLK. A complex made of ABL1, CTTN and MYLK regulates cortical actin-based cytoskeletal rearrangement critical to sphingosine 1-phosphate (S1P)-mediated endothelial cell (EC) barrier enhancement.

Subcellular Location:
Cytoplasm, cytoskeleton. Cell projection, lamellipodium. Cell projection, ruffle. Note=Associated with membrane ruffles and lamellipodia.

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 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:
Contains 7 cortactin repeats.
Contains 1 SH3 domain.

SWISS:
Q14247

Gene ID:
2017

Database links:

Entrez Gene: 2017Human

Entrez Gene: 13043Mouse

	Entrez Gene: 60465Rat GenBank: NM_138565Human GenBank: NM_007803Mouse Omim: 164765Human SwissProt: Q14247Human SwissProt: Q60598Mouse Unigene: 596164Human Unigene: 205601Mouse Unigene: 107869Rat **Important Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications. 皮层肌动蛋白(cortactin)是一种微丝肌动蛋白Binding protein,其主要参与Cytoskeleton系统的调控,细胞外Signal transduction以及细胞黏附等过程，cortactin与Tumour的侵袭和转移有关。