Cortactin (CTTN) Antibody – Polyclonal

PRODUCT OVERVIEW

Product Name	Cortactin (CTTN), Polyclonal Antibody
Full Product Name	Cortactin (Acetyl Lys235) Polyclonal Antibody
Product Gene Name	anti-CTTN antibody
Clonality	Polyclonal
Molecular Weight	57,467 Da
OMIM	164765
3D Structure	ModBase 3D Structure for Q14247
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for anti-CTTN antibody	MBS8519192 is an antibody targeting CTTN. Also known as Cortactin (Acetyl Lys235) Polyclonal Antibody.
Other Notes	Small volumes of anti-CTTN antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CTTN. It may not necessarily be applicable to this product.

NCBI GI #	296080746
NCBI GeneID	2017
NCBI Accession #	NP_001171669.1
UniProt Primary Accession #	Q14247
UniProt Secondary Accession #	Q8N707; Q96H99
UniProt Related Accession #	Q14247
GenBank Nucleotide #	NM_001184740.1
NCBI Official Full Name	src substrate cortactin isoform c
NCBI Official Synonym Full Names	cortactin
NCBI Official Symbol	CTTN
NCBI Official Synonym Symbols	EMS1
UniProt Protein Name	Src substrate cortactin
UniProt Synonym Protein Names	Amplaxin; Oncogene EMS1
Protein Family	Src substrate cortactin
UniProt Gene Name	CTTN
UniProt Synonym Gene Names	EMS1
NCBI Protein Information	src substrate cortactin

NCBI Summary for CTTN	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, May 2010]
UniProt Comments for CTTN	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 (). Through its interaction with CTTNBP2, involved in the regulation of neuronal spine density (). 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 (). 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 (). Required for stabilization of KCNH1 channels at the cell membrane (PubMed:23144454).
Research Articles on CTTN	**1.** Data show that cortactin-mediated p21Cip1 nuclear export and degradation facilitating MCP1-induced human aortic smooth muscle cell (HASMC) proliferation.
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