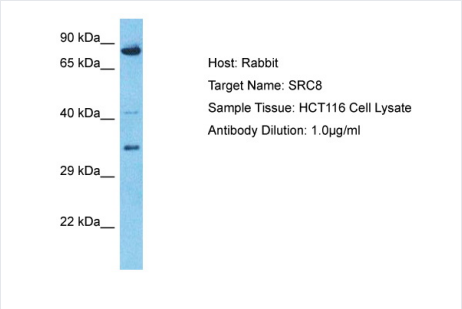
CTTN Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	CTTN, Polyclonal Antibody
Full Product Name	CTTN Antibody - middle region
Product Gene Name	anti-CTTN antibody
Product Synonym Gene Name	EMS1
Immunogen Sequence	Synthetic peptide located within the following region: HYPAEDSTYD EYENDLGITA VALYDYQAAG DDEISFDPDD IITNIEMIDD
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Purity/Purification	Affinity purified
Preparation and Storage	For short term use, store at 2-8 degree C up to 1 week. For long term storage, store at -20 degree C in small aliquots to prevent freeze-thaw cycles.
Antibody/Peptide Pairs	CTTN peptide (MBS3245072) is used for blocking the activity of CTTN antibody (MBS3220249)
Molecular Weight	69kDa
OMIM	164765
3D Structure	ModBase 3D Structure for Q14247
Immunogen	The immunogen is a synthetic peptide directed towards the middle region of Human SRC8
Product Categories/Family for anti-CTTN antibody	Polyclonal; Cell Biology; Various; Apoptosis; E3 & Ubiquitin; Disease Related
Applications Tested/Suitable for anti-CTTN antibody	Western Blot (WB)
Related Product Information for anti-CTTN antibody	This is a rabbit polyclonal antibody against SRC8. It was validated on Western Blot Target Description: 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.
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.
Searchable Terms for CTTN purchase	MBS3220249 is an antibody targeting CTTN. Also known as CTTN Antibody - middle region. Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-CTTN antibody
Host: RabbitTarget Name: SRC8Sample Type: HCT116 Whole Cell lysatesAntibody Dilution: 1.0ug/ml

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 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
UniProt Entry Name	SRC8_HUMAN
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	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. The central region of the protein contains six repeats of 37 amino acids that are important in F-actin binding and cross-linking. The carboxy-terminus contains a proline-rich region and an SH3 domain that can interact with numerous scaffolding proteins, such as CortBP1 and Shank3. Cortactin may play a role in the organization of transmembrane receptors at postsynaptic densities (PSD) and tight junctions by linking scaffolding proteins to the actin network. It is degraded in a caspase-dependent manner during apoptosis. It is overexpressed in numerous cancers with poor patient prognosis. It may contribute to tumor cell invasion and metastasis. Two splice variant isoforms have been identified. Protein type: Motility/polarity/chemotaxis; Actin-binding; Cytoskeletal Chromosomal Location of Human Ortholog: 11q13 Cellular Component: cortical cytoskeleton; voltage-gated potassium channel complex; focal adhesion; dendritic spine; actin filament; coated pit; cell cortex; ruffle; growth cone; cytoskeleton; lamellipodium; cytoplasm; podosome Molecular Function: protein binding Biological Process: focal adhesion formation; intracellular protein transport; receptor-mediated endocytosis; positive regulation of actin filament polymerization; actin filament polymerization; actin cytoskeleton reorganization; cell motility involved in cell locomotion; regulation of axon extension; substrate-bound cell migration, cell extension; neurite morphogenesis
Research Articles on CTTN	**1.** Oxidized ATM can phosphorylate cortactin at serine 113, playing a critical role in promoting breast tumor cell mobility and invasion via actin polymerization.
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