CTTN Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	CTTN, Monoclonal Antibody
Full Product Name	CTTN (Src Substrate Cortactin,, Amplaxin, Oncogene EMS1, FLJ34459) (MaxLight 750)
Product Gene Name	anti-CTTN antibody
Clonality	Monoclonal
Isotype	IgG2a,k
Clone Number	2B5
Host	Mouse
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight750.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human CTTN.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amo immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight750 conjugates are sensitive to light. For maximum recovery of produc original vial prior to removing the cap.
Molecular Weight	57,467 Da
OMIM	164765
3D Structure	ModBase 3D Structure for Q14247
Immunogen	Partial recombinant corresponding to aa341-450 from human CTTN (NP_005222.2) with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	EAVTSKTSNIRANFENLAKEKEQEDRRKAEAERAQRMAKERQEQEEARRKLEEQARAKTQTPPVSPAPQPTEERLPSSPVYEDAASFKAELSYRGPVSG
Conjugate	MaxLight750
Product Categories/Family for anti-CTTN antibody	Antibodies; Actin Binding Proteins
Applications Tested/Suitable for anti-CTTN antibody	FLISA, Western Blot (WB)
Application Notes for anti-CTTN antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-CTTN antibody	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 invasivene cells, and the formation of metastases.

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 necess 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 apply.
Searchable Terms for CTTN purchase	MBS6232369 is an antibody targeting CTTN. Also known as CTTN (Src Substrate Cortactin,, Amplaxin, Oncogene EMS1, FLJ34459) (MaxLight 750). Human. Host: Mouse.

ADDITIONAL DETAILS

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

NCBI GI #	20357552
NCBI GeneID	2017
NCBI Accession #	NP_005222.2
UniProt Primary Accession #	Q14247
UniProt Secondary Accession #	Q8N707; Q96H99
UniProt Related Accession #	Q14247; AAB26248
GenBank Nucleotide #	NM_005231
NCBI Official Full Name	src substrate cortactin isoform a
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; amplaxin; 1110020L01Rik; oncogene EMS1; ems1 sequence (mammary tumor and squamous cell carcinoma-associated (p80/85 src substrate)
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.** Data suggest a mechanism for the negative regulation of cortactin by FBXL5 protein in gastric cancer cells migration.
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