

## Recombinant Human CTTN, His-tagged

**Cat. No.** CTTN-27962TH **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant fragment, corresponding to amino acids 503-593 of Human Cortactin, isoform CRA_a with N terminal His tag; Predicted MWt 10 kDa.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	503-593 a.a.
<b>Description</b>	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.
<b>Conjugation</b>	HIS
<b>Form</b>	Lyophilised:Reconstitute with 38 µl aqua dest.
<b>Storage buffer</b>	Preservative: None Constituents: 0.5% Trehalose, 6M Urea, 100mM Sodium phosphate, 10mM Sodium chloride, pH 4.5

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<b>Storage</b>	Shipped at 4°C. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
<b>Sequences of amino acids</b>	ELAFSCVRVALVPIKCSRDLPGQARGRLRSALWRVGRKDCP RRGASSRVSLGRRG LGLMEVNPELSHPEHRSCHVRWE ICLCHTVTARRIR
<b>Sequence Similarities</b>	Contains 7 cortactin repeats.Contains 1 SH3 domain.

## GENE INFORMATION

<b>Gene Name</b>	CTTN cortactin [ Homo sapiens ]
<b>Official Symbol</b>	CTTN
<b>Synonyms</b>	CTTN; cortactin; EMS1, ems1 sequence (mammary tumor and squamous cell carcinoma associated (p80/85 src substrate); src substrate cortactin;
<b>Gene ID</b>	2017
<b>mRNA Refseq</b>	NM_001184740
<b>Protein Refseq</b>	NP_001171669
<b>MIM</b>	164765
<b>Uniprot ID</b>	Q14247
<b>Chromosome Location</b>	11q13
<b>Pathway</b>	Bacterial invasion of epithelial cells, organism-specific biosystem; Bacterial invasion of epithelial cells, conserved biosystem; E-cadherin signaling in the nascent adherens

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junction, organism-specific biosystem; FGF signaling pathway, organism-specific biosystem; N-cadherin signaling events, organism-specific biosystem;

**Function**

protein binding;

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