

Recombinant Human CTTN, His-tagged

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

SPECIFICATION

Product Overview	Recombinant fragment, corresponding to amino acids 503-593 of Human Cortactin, isoform CRA_a with N terminal His tag; Predicted MWt 10 kDa.
Species	Human
Source	E.coli
ProteinLength	503-593 a.a.
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.
Conjugation	HIS
Form	Lyophilised:Reconstitute with 38 µl aqua dest.
Storage buffer	Preservative: NoneConstituents: 0.5% Trehalose, 6M Urea, 100mM Sodium phosphate, 10mM Sodium chloride, pH 4.5

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

GENE INFORMATION

Gene Name	CTTN cortactin [Homo sapiens]
Official Symbol	CTTN
Synonyms	CTTN; cortactin; EMS1, ems1 sequence (mammary tumor and squamous cell carcinoma associated (p80/85 src substrate); src substrate cortactin;
Gene ID	2017
mRNA Refseq	NM_001184740
Protein Refseq	NP_001171669
MIM	164765
Uniprot ID	Q14247
Chromosome Location	11q13
Pathway	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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