Recombinant Human CTTN, GST-tagged

Cat. No. CTTN-27H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CTTN (1 a.a. - 513 a.a.), fused with GST-tag at N-terminal, was expressed in Wheat Germ.
Species	Human
Source	Wheat Germ
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.
Molecular Mass	83.9 kDa
AA Sequence	MWKASAGHAVSIAQDDAGADDWETDPDFVNDVSEKEQRWGAKTVQGSGHQEHIN IHKLRENVFQEHQTLKEKELE TGPKASHGYGGKFGVEQDRMDKSAVGHEYQSKLS KHCSQVDSVRGFGGKFGVQMDRVDQSAVGFEYQGKTEKHAS QKDYSSGFGGKY GVQADRVDKSAVGFDYQGKTEKHESQRDYSKGFGGKYGIDKDKVDKSAVGFEYQ GKTEKHESQ KDYVKGFGGKFGVQTDRQDKCALGWDHQEKLQLHESQKDYSKGF GGKYGVQKDRMDKNASTFEDVTQVSSAYQKT VPVEAVTSKTSNIRANFENLAKEK

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	EQEDRRKAEAERAQRMAKERQEQEEARRKLEEQARAKTQTPPVSPAPQPTE ERL PSSPVYEDAASFKAELSYRGPVSGTEPEPVYSMEAADYREASSQQGLAYATEAVYE SAEAPGHYPAEDSTYD EYENDLGITAVALYDYQAAGDDEISFDPDDIITNIEMIDDGW WRGVCKGRYGLFPANYVELRQ
Applications	ELISA; WB-Re; AP; Array
Notes	Best use within three months from the date of receipt of this protein.
Storage	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name	CTTN cortactin [Homo sapiens (human)]
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_138565
Protein Refseq	NP_612632
MIM	164765
UniProt ID	Q14247

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Chromosome Location	11q13
Pathway	Bacterial invasion of epithelial cells; FGF signaling pathway; Pathogenic Escherichia coli infection
Function	protein binding

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