

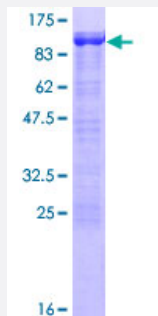
Full-Length

CTTN (Human) Recombinant Protein (P01)

Catalog # H00002017-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human CTTN full-length ORF (NP_612632.1, 1 a.a. - 513 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MWKASAGHAVSIAQDDAGADDWETDPDFVNDVSEKEQRWGAKTVQGSGHQEHINHLRENVF
QEHQTLKEKELETGPKASHGYGGKFGVEQDRMDKSAVGHEYQSKLSKHCSQVDSVRGFGGKF
GVQMDRVDQSAVGFEYQGKTEKHASQKDYSSGFGGKYGVQADRVDKSAVGFDYQGKTEKHES
QRDYSKGFGGKYGIDKDKVDKSAVGFEYQGKTEKHESQKDYVKGFGGKFGVQTDQRQDKCALG
WDHQEKLQLHESQKDYSGFGGKYGVQKDRMDKNASTFEDVTQVSSAYQKTPVEAVTSKTSN
IRANFENLAKEKEQEDRRKAEAEARAQRMAREQEEARRKLEEQARAKTQTPPVSPAPQPT
ERLPSSPVYEDAASFKAELSYRGPVSGTEPEPVYSMEAADYREASSQQGLAYATEAVYESAEAP
GHYPAEDSTYDEYENDLGITAVALYDYQAAGDDEISFPDDIITNIEMIDGWWRGVCKGRYGLFP
ANYVELRQ

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

83.9

Preparation Method

[in vitro wheat germ expression system](#)

Purification

Glutathione Sepharose 4 Fast Flow

Quality Control Testing

12.5% SDS-PAGE Stained with Coomassie Blue.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

Storage Instruction

Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Note

Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — CTTN

Entrez GeneID[2017](#)**GeneBank Accession#**[NM_138565.1](#)**Protein Accession#**[NP_612632.1](#)**Gene Name**

CTTN

Gene Alias

EMS1, FLJ34459

Gene Description

cortactin

Omim ID[164765](#)**Gene Ontology**[Hyperlink](#)**Gene Summary**

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. Two splice variants that encode different isoforms have been identified for this gene. [provided by RefSeq]

Other Designations

1110020L01Rik|ems1 sequence (mammary tumor and squamous cell carcinoma-associated (p80/85 src substrate))|oncogene EMS1

Publication Reference

- [Cancer associated fibroblast derived SLIT2 drives gastric cancer cell metastasis by activating NEK9.](#)

Guofang Lu, Rui Du, Jiaqiang Dong, Yi Sun, Fenli Zhou, Fan Feng, Bin Feng, Ying Han, Yulong Shang.

Cell Death & Disease 2023 Jul; 14(7):421.

Application: KA, N/A, Recombinant proteins

Pathway

- [Pathogenic Escherichia coli infection - EHEC](#)
- [Tight junction](#)

Disease

- [Asthma](#)
- [Genetic Predisposition to Disease](#)