

Carcinoembryonic Antigen (CEA) Protein | CEA protein

Eukaryotic Carcinoembryonic Antigen (CEA)

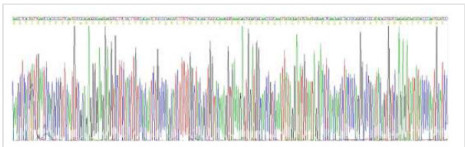
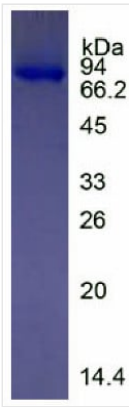
CATALOG # AAA147094	HOST 293F cell	REACTIVITY Homo sapiens (Human)	APPLICATIONS Western Blot, SDS-Page
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PRODUCT SYNONYMS

Carcinoembryonic Antigen (CEA); Eukaryotic Carcinoembryonic Antigen (CEA); CD66E; CD66; CEACAM5; Carcinoembryonic Antigen-related Cell Adhesion Molecule 5; Carcinoembryonic Antigen; CEA protein

PRODUCT SPECIFICATIONS

Host	293F cell
Reactivity	Homo sapiens (Human)
Purity/Purification	> 90%
Form/Format	PBS, pH7.4, containing 5% Trehalose.
Concentration	Original Concentration: 500ug/mL (varies by lot)
Applicable Applications for CEA protein	WB (Western Blot), SDS-PAGE, Immunogen, Positive Control
Source	Eukaryotic expression
Residues	Lys35~Ala685
Tags	N-terminal His Tag
Subcellular Location	Secreted
Traits	Freeze-dried powder
Predicted isoelectric point	5.4
Phenomenon explanation	The possible reasons that the actual band size differs from the predicted are as follows: 1. Splice variants: Alternative splicing may create different sized proteins from the same gene. 2. Relative charge: The composition of amino acids may affects the charge of the protein. 3. Post-translational modification: Phosphorylation, glycosylation, methylation etc. 4. Post-translation cleavage: Many proteins are synthesized as pro-proteins, and then cleavedto give the active form. 5. Polymerization of the target protein: Dimerization, multimerization etc.
Usage	Reconstitute in 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.
Preparation and Storage	Storage: Avoid repeated freeze/thaw cycles. Store at 2-8 degree C for one month. Aliquot and store at -80 degree C for 12 months. Stability Test: The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 degree C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.



Gene Sequence
Gene Sequencing (extract)

SDS-PAGE

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      KLTIES TPFNVAEGKE
VLLLVHNLPO HLFGYSHYKG ERVDGNRQIT GYVIGTQAT PGPAYSGREI
IYPNASLLIQ NIIQNDTGFY TLHVIKSDLV NEEATQQFRV YPELPKPSIS
SNNSKPVEDK DAVAFCTCEP TQDATYLMWV NNQSLPVSPR LQLSNGHRTL
TLFNVTRNDT ASVKCETQNP VSARRSDSVI LNVLYGPDAP TISPLNTSYR
SGEHLNLSCH AASNPPAQVS WFNVTGTFQQS TQELFIPNIT VNNSGSGYTCQ
AHNSDTGLNR TTVTTITVYA EPPKPFITSN NSNPVEDEDA VALTCEPEIQ
NTTYLWVWNN QSLPVSPRLQ LSNDRRTLTL LSVTRNDVGP YECGIQNKLS
VDHSDPVILN VLYGPDPTI SPSYTYRPG VNLSLSCHAA SNPPAQYSWL
IDGNIQHTQ ELFISNITEK NSGLYTCQAN NSASGHSRTT VKTITVSAEL
PKPSISSNNS KPVEDKDAVA FTCEPEAQT TYLWVWNGQS LPVSPRLQLS
NGNRTLTLFN VTRNDARAYV CGIQNSVSAN RSDPVTLDVL YGPDPTIISP
PDSSVLSGAN LNLSCHSASN PSPQYSWRIN GIPQHTQVL FIAKITPNNN
GTYACFVSNL ATGRNNSIVK SITVSASGTS PGLSA

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Sequence

ADDITIONAL INFORMATION

Product Categories/Family for CEA protein	Eukaryotic proteins
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NCBI AND UNIPROT INFORMATION

NCBI GI #	612407802
NCBI GeneID	1048
NCBI Accession #	NP_001278413.1
NCBI GenBank Nucleotide #	NM_001291484.2
UniProt Accession #	P06731; H9KVA7
Molecular Weight	Predicted Molecular Mass: 73.0kDa Accurate Molecular Mass: 80kDa as determined by SDS-PAGE reducing conditions.
NCBI Official Full Name	carcinoembryonic antigen-related cell adhesion molecule 5 isoform 1 preproprotein
NCBI Official Synonym Full Names	carcinoembryonic antigen related cell adhesion molecule 5
NCBI Official Symbol	CEACAM5
NCBI Official Synonym Symbols	CEA; CD66e
NCBI Protein Information	carcinoembryonic antigen-related cell adhesion molecule 5
UniProt Protein Name	Carcinoembryonic antigen-related cell adhesion molecule 5
UniProt Gene Name	CEACAM5
UniProt Synonym Gene Names	CEA; CEA

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/293f-cell-homo-sapiens-human-protein/carcinoembryonic-antigen-cea/147094>