CEACAM5 Protein, Human (HEK293, C-His)

Cat. No.:	HY-P75356
Synonyms:	Carcinoembryonic antigen; CEA; Meconium antigen 100; CD66e
Species:	Human
Source:	HEK293
Accession:	NP_004354.2 (K35-A685)
Gene ID:	1048
Molecular Weight:	Approximately 128 & 154.7 kDa

PROPERTIES

AA Sequence	K L T I E S T P F N V A E G K E V L L L V H N L P Q H L F G Y S W Y K G E R V D G N R Q I I G Y V I G T Q Q A T P G P A Y S G R E I I Y P N A S L L I Q N I I Q N D T G F Y T L H V I K S D L V N E E A T G Q F R V Y P E L P K P S I S S N N S K P V E D K D A V A F T C E P E T Q D A T Y L W W V N N Q S L P V S P R L Q L S N G N R T L T L F N V T R N D T A S Y K C E T Q N P V S A R R S D S V I L N V L Y G P D A P T I S P L N T S Y R S G E N L N L S C H A A S N P P A Q Y S W F V N G T F Q Q S T Q E L F I P N I T V N N S G S Y T C Q A H N S D T G L N R T T V T T I T V Y A E P P K P F I T S N N S N P V E D E D A V A L T C E P E I Q N T T Y L W W V N N Q S L P V S P R L Q L S N D N R T L T L L S V T R N D V G P Y E C G I Q N E L S V D H S D P V I L N V L Y G P D D P T I S P S Y T Y Y R P G V N L S L S C H A A S N P P A Q Y S W L I D G N I Q Q H T Q E L F I S N I T E K N S G L Y T C Q A N N S A S G H S R T T V K T I T V S A E L P K P S I S S N N S K P V E D K D A V A F T C E P E A Q N T T Y L W W V N G Q S L P V S P R L Q L S N G N R T L T L F N V T R N D A R A Y V C G I Q N S V S A N R S D P V T L D V L Y G P D T P I I S P P D S S Y L S G A N L N L S C H S A S N P S P Q Y S W R I N G I P Q Q H T Q V L F I A K I T P N N N G T Y A C F V S N L A T G R N N S I V K S I T V S A S G T S P G L S A
Appearance	Solution.
Formulation	Supplied as a 0.2 μm filtered solution of 20 mM Tris, 150 mM NaCl, pH 8.0.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	N/A.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice

DESCRIPTION

Background	CEACAM5 protein, a cell surface glycoprotein, assumes a multifaceted role in cell adhesion, intracellular signaling, and tumor progression. Functioning as a mediator of both homophilic and heterophilic cell adhesion, CEACAM5 interacts with other carcinoembryonic antigen-related cell adhesion molecules, such as CEACAM6. In the context of tumor progression, CEACAM5 acts as an oncogene, promoting tumor advancement and inducing resistance to anoikis in colorectal carcinoma cells. Additionally, during microbial infection, CEACAM5 serves as a receptor for E. coli Dr adhesins, and the binding of these adhesins results in the dissociation of the CEACAM5 homodimer. These diverse functions underscore the versatility of CEACAM5 in regulating cellular processes and highlight its significance in both physiological and pathological contexts.

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