

Recombinant Human CEACAM1 Protein, His-tagged

Cat. No. CEACAM1-178H Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant human CEACAM1 protein with His tag was expressed in HEK293.

Species Human

Source HEK293

ProteinLength 526

Description

This gene encodes a member of the carcinoembryonic antigen (CEA) gene family, which belongs to the immunoglobulin superfamily. Two subgroups of the CEA family, the CEA cell adhesion molecules and the pregnancy-specific glycoproteins, are located within a 1.2 Mb cluster on the long arm of chromosome 19. Eleven pseudogenes of the CEA cell adhesion molecule subgroup are also found in the cluster. The encoded protein was originally described in bile ducts of liver as biliary glycoprotein. Subsequently, it was found to be a cell-cell adhesion molecule detected on leukocytes, epithelia, and endothelia. The encoded protein mediates cell adhesion via homophilic as well as heterophilic binding to other proteins of the subgroup. Multiple cellular activities have been attributed to the encoded protein, including roles in the differentiation and arrangement of tissue three-dimensional structure, angiogenesis, apoptosis, tumor suppression, metastasis, and the modulation of innate and adaptive immune responses. Multiple transcript variants encoding different isoforms have been reported, but the full-length nature of all variants has not been defined.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Form	Lyophilized
Molecular Mass	44.2 kDa
AA Sequence	<p>MGHLSAPLHRVRVPWQGLLLTASLLTFWNPPTTAQLTTESMPFNVAEGKEVLLLHV NLPQQFLFGYSWYKGERVDGNRQIVGYAIGTQQATPGPANSGRETIYPNASLLIQNVT QNDTGFYTLQVIKSDLVNEEATGQFHVYPELPKPSISSNNSNPVEDKDAVAFTCEPE TQDTTYLWWINNQSLPVSPRLQLSNGNRTLTLSSVTRNDTGPYECEIQNPVSANRS DPVTLNVTYGPDTPTISPSDTYYRPGANLSLSCYAASNPPAQYSWLINGTFQQSTQE LFIPNITVNNSGSYTCHANNSVTGCNRTTVKTIIVTELSPVVAKPQIKASKTTVTGDKD SVNLTCSTNDTGISIRWFFKNQSLPSSERMKLSQGNTTLSINPVKREDAGTYWCEVF NPISKNQSDPIMLNVNYPALPQENGLSPGAIAGIVIGVVALVALIAVALACFLHFGKTG RASDQRDLTEHKPSVSNHTQDHSNDPPNKMNEVTYSTLNFEAQQPTQPTSASPSL TATEIYSEVKKQ</p>
Purity	> 98%
Applications	WB; ELISA; FACS; FC
Stability	This bioreagent is stable at 4 centigrade (short-term) and -70 centigrade(long-term). After reconstitution, sample may be stored at 4 centigrade for 2-7 days and below -18 centigrade for future use.
Storage	At -20 centigrade.
Concentration	1 mg/mL
Storage Buffer	PBS (pH 7.4-7.5). Sterile-filtered colorless solution.
Reconstitution	Reconstitute in sterile distilled H2O to no less than 100 µg/mL; dilute reconstituted

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stock further in other aqueous solutions if needed. Please review COA for lot-specific instructions. Final measurements should be determined by the end-user for optimal performance.

GENE INFORMATION

Gene Name	CEACAM1 carcinoembryonic antigen-related cell adhesion molecule 1 (biliary glycoprotein) [Homo sapiens (human)]
Official Symbol	CEACAM1
Synonyms	CEACAM1; carcinoembryonic antigen-related cell adhesion molecule 1 (biliary glycoprotein); BGP; carcinoembryonic antigen-related cell adhesion molecule 1; BGP1; CD66a; antigen CD66; CD66a antigen; BGPI;
Gene ID	634
mRNA Refseq	NM_001024912
Protein Refseq	NP_001020083
MIM	109770
UniProt ID	P13688

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