

Recombinant Human CEACAM1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. CEACAM1-4442H Lot. No. (See product label)

SPECIFICATION

Product Overview

CEACAM1 MS Standard C13 and N15-labeled recombinant protein (NP_001020083) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.

Species

Human

Source

HEK293

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

Molecular Mass	51.1 kDa
AA Sequence	MGHL SAPLHRVRVPWQG LLLTASLLTFWNPPTTAQLTTESMPFNVAEGKEVLLLVH NLPQQ LFGYSWYKGERVDGNRQIVGYAIGTQQATPGPANSGRETIYPNASLLIQNVT QNDTG FYTLQVIKSDLVNEEATGQFHVYPELPKPSISSNNSNPVEDKDAVAFTCEPE TQDTTYLWWINNQSLPVSPRLQLSNGNRTLTL LSVTRNDTGPYECEIQNPVSANRS DPVTLNVTYGPDTPTISP SDTYRPGANLSLSCYAASNPPAQYSWLINGTFQQSTQE LFIPNITVNNSGSYTCHANNSVTGCNRTTVKTIIVTELSPV VAKPQIKASKTTVTGDKD SVNLT CSTNDTGISIRWFFKNQSLPSSERMKLSQGNTT L SINVKREDAGTYWCEVF NPISKNQSDPIMLN VNYNALPQENGLSPGAIAGIVIGVVALVALIAVALACFLHFGKTG RTTPMTHLTRTRTRPLEQKLISEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 µg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.
GENE INFORMATION	
Gene Name	CEACAM1 CEA cell adhesion molecule 1 [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;

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BGP1; CD66a; antigen CD66; CD66a antigen; BGPI;

Gene ID 634

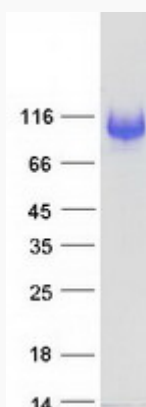
mRNA Refseq NM_001024912

Protein Refseq NP_001020083

MIM 109770

UniProt ID P13688

SDS-PAGE



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