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Product Information

MemDX™ Membrane Protein Human CEACAM1 (CEA cell adhesion molecule 1) Expressed in *E.coli* with Tag-Free for Antibody Discovery, Partial (35-428aa)

Cat. No.: **MPX4294K**
This product is for research use only and is not intended for diagnostic use.

This product is a 43.3kDa Human CEACAM1 membrane protein expressed in *E.coli*. The protein is for research use only and is not approved for use in humans or in clinical diagnosis.

Product Specifications

Host Species
Human

Target Protein
CEACAM1

Protein Length
Partial (35-428aa)

Protein Class
Transporter

Molecular Weight
43.3kDa

TMD
1

Sequence
QLTTESMPFNVAEGKEVLLLVHNLPQQLFGYSWYKGERVDGNRQIVGYAIGTQQATPGPANSGRETIYPNASLLIQNVTQNDTGFY

Product Description

Expression Systems
E.coli

Tag
Tag-Free

Protein Format
Soluble

Form

Liquid or Lyophilized powder

Purity

>90% as determined by SDS-PAGE

Buffer

Tris-based buffer, 50% glycerol

Storage

Aliquot and store at -20°C or lower. For long term storage, we recommend to store at -70°C or lower. Avoid freeze/thaw cycles.

Target

Target Protein

CEACAM1

Full Name

CEA cell adhesion molecule 1

Introduction

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.

Alternative Names

BGP; BGP1; BGPI; carcinoembryonic antigen-related cell adhesion molecule 1; CD66a antigen; antigen CD66; carcinoembryonic antigen related cell adhesion molecule 1; carcinoembryonic antigen-related cell adhesion molecule 1 (biliary glycoprotein); CEACAM1; CEA cell adhesion molecule 1

Gene ID

634

UniProt ID

P13688

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