

## Product Information

### **MemDX™ Membrane Protein Human CEACAM1 (CEA cell adhesion molecule 1) Expressed *in vitro* E.coli expression system, Full Length of Mature Protein**

Cat. No.: **MPX3938K**

This product is for research use only and is not intended for diagnostic use.

This product is a Human CEACAM1 membrane protein expressed *in vitro* E.coli expression system. 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

Full Length of Mature Protein

##### Protein Class

Receptor

##### TMD

1

##### Sequence

QLTTESMPFNVAEGKEVLLL VHNLPQQLFGYSWYKGERVDG NRQIVGYAIGTQQATPGPANS GRETIYPNASLLIQNVTQNDTG FY

#### Product Description

##### Expression Systems

*in vitro* E.coli expression system

##### Tag

10xHis and SUMO tag

##### Protein Format

Soluble

##### Form

Liquid or Lyophilized powder

##### Buffer

Tris/PBS-based buffer, 6% Trehalose, pH 8.0

### 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

CEACAM1; 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); CEA cell adhesion molecule 1

#### Gene ID

[634](#)

#### UniProt ID

[P13688](#)