

Product Information

MemDX™ Membrane Protein Human CEACAM1 (CEA cell adhesion molecule 1, transcript variant 4) for Antibody Discovery

Cat. No.: **MP1144J**

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

This product is a 47.4 kDa Human CEACAM1 membrane protein expressed in HEK293T. 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

Protein Class

Druggable Genome, Transmembrane

Molecular Weight

47.4 kDa

TMD

1

Sequence

MGHLSAPLHRVRVPWQGLLLTASLLTFWNPPTTAQLTTESMPFNVAEGKEVLLL VHNLPQQFLFGYSWYKG
ERVDGNRQIVGYAIGTQQATPGPANSGRETIYPNASLLIQNVTQNDTG FYTLQVIKSDLVNEEATGQFHV
YPELPKPSISSNNSNPVEDKDAVAFTCEPETQDTTYLWWINNQSLPVSPRLQLSNGNRTL TLLSVTRNDT
GPYECEIQNPVSANRSDPVT LNVTYGPDTPTISPSTYYRPGANLSLSCYAASNPPAQYSWLINGTFQQS
TQELFIPNITVNNSGSYTCHANNSVTG CNRTTVKTIIVTDNALPQENGLSPGAIAGIVIGVVALVALIAV
ALACFLHFGKTGRASDQRDLTEHKPSVSNHTQDHSNDPPNKMNEVYSTLNFEAQQPTQPTSASPSLTAT
EIIYSEVKKQ

Product Description

Expression Systems

HEK293T

Tag

C-Myc/DDK

Form

Liquid

Purification

Anti-DDK affinity column followed by conventional chromatography steps

Purity

> 80% as determined by SDS-PAGE and Coomassie blue staining

Buffer

25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol

Storage

Store at +4°C for up to one week or several months at -80°C

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

Gene ID

[634](#)

UniProt ID

[P13688](#)