Bioactive HuPro®

CEACAM1 (Human) Recombinant Protein

Catalog # P6737 Size 100 ug

Applications



Result of activity analysis

Result of activity analysis

Specification

Product Description	Human CEACAM1 (NP_001703.2, 35 a.a. - 428 a.a.) partial recombinant protein with a 6×His tag at the C-terminus expressed in HEK293 cells.
Host	Human
Form	Lyophilized
Preparation Method	Mammalian cell (HEK293) expression system
Purification	Ni-sepharose purification
Purity	> 97% (determined by SDS-PAGE)

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Activity	Measured by the binding ability in a functional ELISA. Immobilized recombinant human CEACAM1 at 5 ug/mL (100 uL/well) can bind recombinant human CEACAM8 with a linear range of 0.5-3 ug/mL.
Quality Control Testing	SDS-PAGE Stained with Coomassie Blue
Recommend Usage	SDS-PAGE The optimal working dilution should be determined by the end user.
Storage Buffer	Lyophilized from a 0.22 um filtered solution of PBS, pH 7.4.
Storage Instruction	Store at -80°C on dry atmosphere, lyophilized antibodies are stable at least 2 years. After reconstitution with deionized water, store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Note	Result of activity analysis Result of activity analysis

Applications

- SDS-PAGE

Gene Info — CEACAM1

Entrez GeneID	634
Protein Accession#	P13688-1
Gene Name	CEACAM1
Gene Alias	BGP, BGP1, BGPI
Gene Description	carcinoembryonic antigen-related cell adhesion molecule 1 (biliary glycoprotein)
Omim ID	109770
Gene Ontology	Hyperlink

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Gene Summary	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 only two has been determined. [provided by RefSeq
Other Designations	CD66a antigen|antigen CD66|biliary glycoprotein adhesion molecule|carcinoembryonic antigen-related cell adhesion molecule 1

Publication Reference

- Functional and intricate interaction network connecting Helicobacter pylori Cag type 4 secretion system surface proteins with outer membrane proteins HopQ and HopZ.

  Felix Metz, Johanna Beilmann, Simon H Bats, Andreas Latoscha, Gregor Witte, Remco T A Megens, Karl-Peter Hopfner, Kaisa Thorell, Wolfgang Fischer, Laurent Terradot, Sebastian Suerbaum, Christine Josenhans

  Microlife 2025 Oct; 6:uqaf027.

Disease

- Body Weight
- Diabetes Mellitus
- Genetic Predisposition to Disease
- Meningococcal Infections
- Metabolic Syndrome X
- Osteoporosis

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