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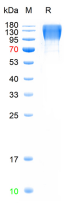
Recombinant human CEACAM5 protein, C-His (HEK293)

Catalog Number:	bs-43141P
Concentration:	>1.0mg/ml
AA Seq:	35-685/702
Predicted MW:	72
Tags:	C-His
Activity:	Not tested
Endotoxin:	Not analyzed
Purity:	> 90% as determined by SDS-PAGE
Purification:	AC
Form:	Lyophilized or Liquid
Storage:	PBS (pH7.4). Stored at -70°C or -20°C. Avoid repeated freeze/thaw cycles.
Background:	CEA-related cell adhesion molecules (CEACAM) belong to the carcinoembryonic antigen (CEA) family. It consists of seven CEACAM (CEACAM 1, CEACAM 3-CEACAM 8) and 11 pregnancy-specific glyco-protein (PSG 1-PSG 11) members. The CEA family proteins belong to the immunoglobulin (Ig) superfamily and are composed of one Ig variable-like (IgV) and a varying number (0-6) of Ig constant-like (IgC) domains. CEACAM molecules are membrane-bound either via a transmembrane domain or a glycosyl phosphatidyl inositol (GPI) anchor. CEACAM molecules are differentially expressed in epithelial cells or in leucocytes. Over-expression of CEA/ CEACAM 5 in tumors of epithelial origin is the basis of its wide-spread use as a tumor marker. The function of CEACAM family members varies widely: they function as cell adhesion molecules, tumor suppressors, regulators of lymphocyte and dendritic cell activation, receptors of Neisseria species and other bacteria.

VALIDATION IMAGES



The purity of the protein is greater than 90% as determined by reducing SDS-PAGE.

PRODUCT SPECIFIC PUBLICATIONS

[IF=14.7] Chen Ke. et al. Atomic-scale strain engineering of atomically resolved Pt clusters transcending natural enzymes. NAT COMMUN. 2024 Sep;15(1):1-18 ; . 39333142

[IF=8.008] Xuwen Gao. et al. Luminophore-Surface-Engineering-Enabled Low-Triggering-Potential and Coreactant-Free Electrochemiluminescence for Protein Determination. ANAL CHEM. 2023;95(17):6948–6954 Other ; . 37083347

[IF=8.3] Fan Xia. et al. Coordination-Driven Templated Synthesis of Hierarchically Porous Zeolitic Imidazolate Frameworks for Cascade Enzyme Cycle Amplification Coupled Immunoassay. ACS APPL MATER INTER. 2024;XXXX(XXX):XXX-XXX Other ; . 39042822

[IF=7.4] Shuxin Zhang. et al. Fully Integrated Ratiometric Fluorescence Enrichment Platform for High-Sensitivity POC Testing of Salivary Cancer Biomarkers. ANAL CHEM. 2023;XXXX(XXX):XXX-XXX Other ; . 38079568

[IF=7.4] Xuwen Gao. et al. Silver Nanocluster-Tagged Electrochemiluminescence Immunoassay with a Sole and Narrow Triggering Potential Window. ANAL CHEM. 2024;96(4):1700–1706 Other ; . 38235596