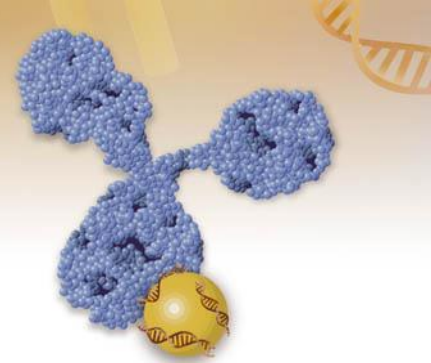


Scientific References Describing Applications of GENOVAC Antibodies



2010

Abrami L et al (2010): Endocytosis of the anthrax toxin is mediated by clathrin, actin and unconventional adaptors. *PLoS Pathog.* 2010; 6(3): e1000792

Fofana I et al (2010): Monoclonal anti-claudin 1 antibodies prevent hepatitis C virus infection of primary human hepatocytes. *Gastroenterology* (10.1053/j.gastro.2010.05.073).

Krieger SE et al (2010): Inhibition of hepatitis C virus infection by anti-claudin-1 antibodies is mediated by neutralization of E2-CD81-Claudin-1 associations. *Hepatology*, 51/4: 1144-57

Singer B et al (2010): Deregulation of the CEACAM expression pattern causes undifferentiated cell growth in human lung adenocarcinoma cells. *PLoS One.* 2010; 5(1): e8747

2009

Adler H et al (2009): Perturbation of lytic and latent gammaherpesvirus infection in the absence of the inhibitory receptor CEACAM1. *PLoS ONE* 4/7

Carvalho, FA et al (2009): Crohn's disease adherent-invasive *Escherichia coli* colonize and induce strong gut inflammation in transgenic mice expressing human CEACAM. *JEM*, 206/10: 2179-2189.

Guignot J et al (2009): Human decay-accelerating factor and CEACAM receptor-mediated internalization and intracellular lifestyle of Afa/Dr diffusely adhering *Escherichia coli* in epithelial cells. *Infection and Immunity*, 77/1, 517-531

Porotto M et al (2009): Simulating henipavirus multicycle replication in a screening assay leads to identification of a promising candidate for therapy. *J Virol.*, 83(10): 5148-55.

Semiramoth N et al (2009): *Escherichia coli* type 1 pili trigger late IL-8 production by neutrophil-like differentiated PLB-985 cells through a Src family kinase -and MAPK- dependent mechanism. *J Leukocyte Biol*, 85, 1-12

Yue T et al (2009): The prevalence and nature of glycan alterations on specific proteins in pancreatic cancer patients revealed using antibody-lectin sandwich arrays. *Mol Cell Proteomics*. 8(7): 1697-707.

2008

Beaslas O et al (2008): Transcriptome response of enterocytes to dietary lipids: impact on cell architecture, signaling, and metabolism genes. *Am J Physiol Gastrointest Liver Physiol*, 295/5: G942-52

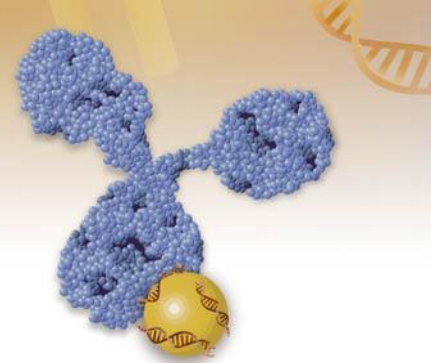
Björkman L et al (2008): Serum amyloid A mediates human neutrophil production of reactive oxygen species through a receptor independent of formyl peptide receptor like-1. *J Leukoc Biol*, 83: 245-53

Haberstroh A et al (2008): Neutralizing host responses in hepatitis C virus infection target viral entry at post binding steps and membrane fusion. *Gastroenterology*, 135: 1719-1728

Krieger S et al (2008): Production of anti-claudin1 antibodies potently inhibiting HCV infection reveals that claudin1 is required for an entry step closely linked to CD81 and SR-BI. Poster: "15th International Symposium on Hepatitis C Virus and Related Viruses", 5-9 Octobre 2008, San Antonio (USA)

Paulmann D et al. (2008): Hepatitis A virus protein 2B suppresses beta interferon (IFN) gene transcription by interfering with IFN regulatory factor 3 activation. *J Gen Virol*, 89 : 1593-1604

Scientific References Describing Applications of GENOVAC Antibodies



Planagumà A et al (2008): Airway Lipoxin A4 generation and Lipoxin A4 receptor expression are decreased in severe asthma. *Am J Respir Crit Care Med*, 178: 574–582

Polymenidou M et al. (2008): The POM monoclonals: a comprehensive set of antibodies to non-overlapping prion protein epitopes. *PLoS ONE* ; 3/12: e3872

Porada CD et al. (2008): Development and characterization of a novel CD34 monoclonal antibody that identifies sheep hematopoietic stem/progenitor cells. *Exp Hematol*, 36/12: 1739-1749

Thomas SN et al. (2008): Carcinoembryonic antigen and CD44 variant isoforms cooperate to mediate colon carcinoma cell adhesion to E- and L-selectin in shear flow. *J Biol Chem*, 283: 15647-55.

2007

Bonn S et al (2007): Combinatorial expression of α - and γ -protocadherins alters their presenilin-dependent processing. *Mol Cell Biol*, 27/11: 4121–4132

Catanese MT et al. (2007): High avidity monoclonal antibodies against human scavenger receptor class B type I efficiently block hepatitis C virus infection in the presence of HDL. *J Virol*, 2007 0: JVI.00193-07

Chan CHF et al. (2007): Colorectal hyperplasia and dysplasia due to human carcinoembryonic antigen (CEA) family member expression in transgenic mice. *PLoS ONE*, 2/12: e1353

Riesenberg, R et al (2007): Expression of indoleamine 2,3-dioxygenase in tumor endothelial cells correlates with long-term survival of patients with renal cell carcinoma. *Clin Cancer Res*, 13/23, 6993-7002

Schmitter T et al. (2007): Opa proteins of pathogenic *Neisseriae* initiate Src kinase-dependent lipid raft-mediated uptake via distinct human carcinoembryonic antigen-related cell adhesion molecule isoforms. *Infection and Immunity*, 8:4116-4126

Schreiner A et al. (2007): Junction protein Shrew-1 influences cell invasion and interacts with invasion-promoting protein CD147. *Mol Biol Cell*, 18/4:1272-81

Viswanathan A et al. (2007): Functional expression of N-formyl peptide receptors in human bone marrow-derived mesenchymal stem cells. *Stem Cells*, 25/5:1263-9

Yoon J et al (2007): CD66b regulates adhesion and activation of human eosinophils. *J Immunol*, 179: 8454-62

Zeisel M et al. (2007): Scavenger receptor class B type I is a key host factor for hepatitis C virus infection required for an entry step closely linked to CD81. *Hepatology*, 46/6:1722-31

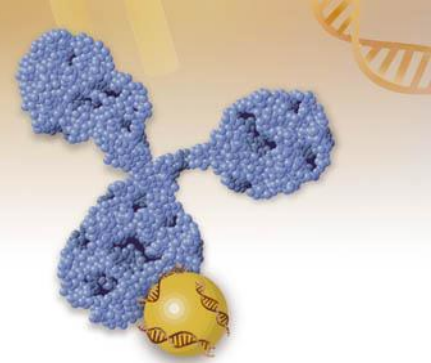
2006

Avadhanula V et al. (2006): Respiratory viruses augment the adhesion of bacterial pathogens to respiratory epithelium in a viral species- and cell type-dependent manner. *J Virol*, 80/4: 1629–1636

D'Amour K et al (2006): Production of pancreatic hormone-expressing endocrine cells from human embryonic stem cells. *Nat Biotechnol*, 24/1: 1392-1401

Ellies D et al. (2006): Bone density ligand, sclerostin, directly interacts with LRP5 but not LRP5^{G171V} to modulate Wnt activity. *J Bone Miner Res*, 21/11:1738-49

Scientific References Describing Applications of GENOVAC Antibodies



Krause S et al. (2006): Blockade of interleukin-13-mediated cell activation by a novel inhibitory antibody to human IL-13 receptor $\alpha 1$. *Mol Immunol*, 33/11: 1799-1807

Noeckel J et al. (2006): Characterization of gastric adenocarcinoma cell lines established from CEA424/SV40 T antigen-transgenic mice with or without a human CEA transgene. *BMC Cancer*, 6: 57

Pavoni E et al. (2006): Selection, affinity maturation, and characterization of a human scFv antibody against CEA protein. *BMC Cancer*, 6: 41

Weinberg AD et al. (2006): Anti-OX40 (CD134) Administration to nonhuman primates: immunostimulatory effects and toxicokinetic study. *J Immunother*, 29/6: 575-585

2005

Bade B et al. (2005): Detection of soluble human granzyme K in vitro and in vivo. *Eur J Immunol.*, 35/10:2940-2948

Bade B et al. (2005): Differential expression of the granzymes A, B, K, M and perforin in human peripheral blood lymphocytes. *Int Immunol*, 17: 1419 - 1428

Bratke K et al. (2005): Differential expression of human granzymes A, B, and K in natural killer cells and during CD8+ T cell differentiation in peripheral blood. *Eur J Immunol*, 35/9: 2608-2616

D'Amour K et al. (2005): Efficient differentiation of human embryonic stem cells to definitive endoderm. *Nat Biotechnol*, 23: 1534-1541

van Gisbergen K et al. (2005): Interactions of DC-SIGN with Mac-1 and CEACAM1 regulate contact between dendritic cells and neutrophils. *FEBS letters* 579/27: 6159-6168

Kalina T et al. (2005): Myeloid antigens in childhood lymphoblastic leukemia: clinical data point to regulation of CD66c distinct from other myeloid antigens. *BMC Cancer* 5: 38

Klaile E et al (2005): CEACAM1 functionally interacts with filamin A and exerts a dual role in the regulation of cell migration. *JCS*, 118: 5513-5524

Kunii R et al. (2005): Expression of CD13/aminopeptidase N on human gingival fibroblasts and up-regulation upon stimulation with interleukin-4 and interleukin-13. *J Periodontal Res*, 40/2:138-46

Muenzner P et al (2005): CEACAM engagement by human pathogens enhances cell adhesion and counteracts bacteria-induced detachment of epithelial cells. *JBC*, 170/5: 825-836

Roessler M et al. (2005): Identification of Nicotinamide N-Methyltransferase as a Novel Serum Tumor Marker for Colorectal Cancer. *Clin Cancer Res*, 11/18: 6550-6558

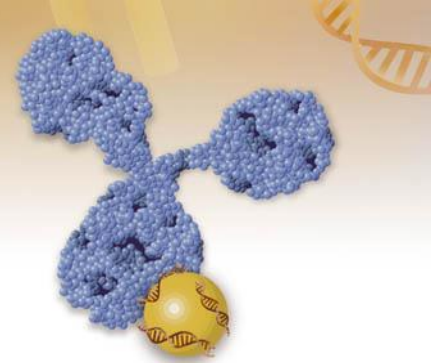
2004

Bharti S (2004): Novel membrane protein shrew-1 targets to Cadherin-mediated junctions in polarized epithelial cells. *Mol Biol Cell*, 15: 397-406.

Elagoz A et al. (2004): A truncated form of CKb8-1 is a potent agonist for human formyl peptide-receptor-like 1 receptor. *Br J Pharmacol*, 141/1: 37-46.

Haynes C and BS Schnierle (2004): Retroviral vector targeting through insertion of epidermal growth factor into receptor binding deficient influenza A hemagglutinin results in fusion defective particles. *J Virol Methods*, 120/2: 189-199

Scientific References Describing Applications of GENOVAC Antibodies



Kammerer R et al. (2004): The tumour suppressor gene CEACAM1 is completely but reversibly downregulated in renal cell carcinoma. *J Pathol*, 204/3: 258-267.

Kiessling J et al. (2004): Dual targeting of plastid division protein FtsZ to chloroplasts and the cytoplasm. *EMBO reports* 5 /9: 889-894.

McCaw S et al. (2004): Engulfment of *Neisseria gonorrhoeae*: Revealing distinct processes of bacterial entry by individual carcinoembryonic antigen-related cellular adhesion molecule family receptors. *Infect Immun*, 72/5: 2742–2752.

Myrtek D et al. (2004): Expression of interleukin-13 receptor α 1-subunit on peripheral blood eosinophils is regulated by cytokines. *Immunology*, 112: 597–604.

Nanda A et al. (2004): Identification of a binding partner for the endothelial cell surface proteins TEM7 and TEM7R. *Cancer Res*, 64: 8507–8511.

Schmitter T et al. (2004): Granulocyte CEACAM3 is a phagocytic receptor of the innate immune system that mediates recognition and elimination of human-specific pathogens. *J Exp Med*, 199/1: 35–46.

2003

de Jonge MI et al. (2003): Functional activity of antibodies against the recombinant OpaJ protein from *Neisseria meningitidis*. *Infection and Immunity*, 71/5:2331-2340.

de Jonge MI et al. (2003): Mapping the binding domains on meningococcal Opa proteins for CEACAM1 and CEA receptors. *Mol Microbiol*, 50/3: 1005.

Fahlgren A et al. (2003): Interferon-gamma tempers the expression of carcinoembryonic antigen family molecules in human colon cells: a possible role in innate mucosal defence. *Scand J Immunol*, 58/6:628-641.

2002

Billker O et al. (2002): Distinct mechanisms of internalisation of *Neisseria gonorrhoeae* by members of the CEACAM receptor family involving Pac1- and Cdc42-dependent and – independent pathways. *EMBO J*, 21/4: 560-571.

Boulton IC and SD Gray-Owen (2002): Neisserial binding to CEACAM1 arrests the activation and proliferation of CD4+ T lymphocytes. *Nat Immunol*, 3/3:229-236.

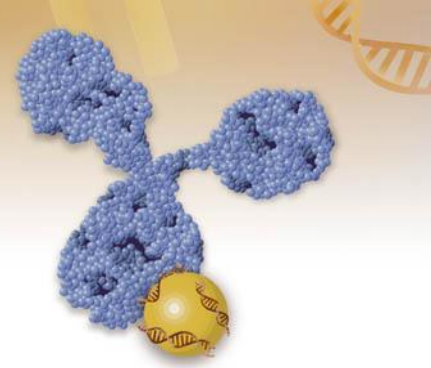
Klippel S et al. (2002): Biochemical characterisation of PRV-1, a novel hematopoietic cell surface receptor, which is overexpressed in polycythemia rubra vera. *Blood*, 100/7: 2441-2448.

2001

Richter G. et al. (2001): Tumor necrosis factor α regulates the expression of ICOS ligand on CD34+ progenitor cells during differentiation into antigen presenting cells. *J Biol Chem*, 276/49: 45686-93.

Watt SM et al. (2001): Homophilic adhesion of human CEACAM1 involves N-terminal domain interactions: structural analysis of the binding site. *Blood*, 98/5: 1469-1479.

Scientific References Describing Applications of GENOVAC Antibodies



2000

Schoelzel S et al. (2000): Carcinoembryonic antigen family members CEACAM6 and CEACAM7 are differentially expressed in normal tissues and oppositely deregulated in hyperplastic colorectal polyps and early adenomas. *Am J Pathol*, 156/2: 595-605

Temerinac S et al. (2000): Cloning of PRV-1, a novel member of the uPAR receptor superfamily, which is overexpressed in polycythemia rubra vera. *Blood*, 95/8: 2569-2576.