

Product References

Poietics® CD34+ Cells

Cells⁺

1. Abernathy DJ, Kleymenova EV, Rose J, Recio L, Faiola B. Human CD34+ hematopoietic progenitor cells are sensitive targets for toxicity induced by 1,4-benzoquinone. *Toxicol Sci.* 2004; 79: 82-9.
2. Anderson RM, Stevens DL, Sumption ND, Townsend KM, Goodhead DT, Hill MA. Effect of linear energy transfer (LET) on the complexity of alpha-particle-induced chromosome aberrations in human CD34+ cells. *Radiat Res.* 2007 May;167(5):541-50.
3. Bagley RG, Walter-Yohrling J, Cao X, Weber W, Simons B, Cook BP Chartrand SD, Wang C, Madden SL, Teicher BA. Endothelial precursor cells as a model of tumor endothelium: characterization and comparison with mature endothelial cells. *Canc Res.* 2003 Jan; 63: 5866-73.
4. Bharadwaj U, Li M, Zhang R, Chen C, Yao Q. Elevated interleukin-6 and G-CSF in human pancreatic cancer cell conditioned medium suppress dendritic cell differentiation and activation. *Cancer Res.* 2007 Jun 1;67(11):5479-88.
5. Caballero S, Sengupta N, Afzal A, Chang KH, Li Calzi S, Guberski DL, Kern TS, Grant MB. Ischemic vascular damage can be repaired by healthy, but not diabetic, endothelial progenitor cells. *Diabetes.* 2007 Apr;56(4):960-7.
6. Chang KH, Chan-Ling T, McFarland EL, Afzal A, Pan H, Baxter LC, Shaw LC, Caballero S, Sengupta N, Li Calzi S, Sullivan SM, Grant MB. IGF binding protein-3 regulates hematopoietic stem cell and endothelial precursor cell function during vascular development. *Proc Natl Acad Sci U S A.* 2007 Jun 19;104(25):10595-600.
7. Chute JP, Muramoto GG, Dressman HK, Wolfe G, Chao NJ, Lin S. Molecular profile and partial functional analysis of novel endothelial cell-derived growth factors that regulate hematopoiesis. *Stem Cells.* 2006 May;24(5):1315-27.
8. Chute JP, Saini AA, Chute DJ, Wels MR, Clark WB, Harlan DM, Park J, Stull MK, Civin C, Davis TA. Ex vivo culture with human brain endothelial cells increases the SCID-repopulating capacity of adult human bone marrow. *Blood.* 2002; 100(13): 4433-9.
9. Detmer K, Garner RE. Cell surface marker and cell cycle analysis, hedgehog signaling, and flow cytometry. *Methods Mol Biol.* 2007;397:79-90.
10. Doepfner KT, Spertini O, Arcaro A. Autocrine insulin-like growth factor-I signaling promotes growth and survival of human acute myeloid leukemia cells via the phosphoinositide 3-kinase/Akt pathway. *Leukemia.* 2007 Sep;21(9):1921-30.
11. Ebert BL, Galili N, Tamayo P, Bosco J, Mak R, Pretz J, Tanguturi S, Ladd-Acosta C, Stone R, Golub TR, Raza A. An erythroid differentiation signature predicts response to lenalidomide in myelodysplastic syndrome. *PLoS Med.* 2008 Feb;5(2):e35.
12. Ebert BL, Lee MM, Pratz JL, Subramanian A, Mak R, Golub TR, Sieff CA. An RNA interference model of RPS19 deficiency in diamond blackfan anemia recapitulates defective hematopoiesis and rescue by dexamethasone: identification of dexamethasone responsive genes by microarray. *Blood.* 2005 Mar 8.
13. Ebert BL, Pretz J, Bosco J, Chang CY, Tamayo P, Galili N, Raza A, Root DE, Attar E, Ellis SR, Golub TR. Identification of RPS14 as a 5q- syndrome gene by RNA interference screen. *Nature.* 2008 Jan 17;451(7176):335-9.
14. Gao N, Rahmani M, Shi X, Dent P, Grant S. Synergistic antileukemic interactions between 2-methoxyestradiol (2-ME) and histone deacetylase inhibitors involve Akt down-regulation and oxidative stress. *Blood.* 2006 Jan 1;107(1):241-9.

15. Gao Z, Golob J, Tanavde VM, Civin CI, Hawley RG, Cheng L. High levels of transgene expression following transduction of long-term NOD/SCID-repopulating human cells with a modified lentiviral vector. *Stem Cells.* 2001; 19: 247-59.
16. Goodrum F, Reeves M, Sinclair J, High K, Shenk T. Human cytomegalovirus sequences expressed in latently infected individuals promote a latent infection in vitro. *Blood.* 2007 Aug 1;110(3):937-45.
17. Helske S, Syväraanta S, Kupari M, Lappalainen J, Laine M, Lommi J, Turto H, Mäyränpää M, Werkkala K, Kovanen PT, Lindstedt KA. Possible role for mast cell-derived cathepsin G in the adverse remodelling of stenotic aortic valves. *Eur Heart J.* 2006 Jun;27(12):1495-504.
18. Hirohata S, Miura Y, Tomita T, Yoshikawa H, Ochi T, Chiorazzi N. Enhanced expression of mRNA for nuclear factor kappaB1 (p50) in CD34+ cells of the bone marrow in rheumatoid arthritis. *Arthritis Res Ther.* 2006;8(2): R54.
19. Hong Y, Lee K, Yu SS, Kim S, Kim J-G, Shin HY, Kim S. Factors affecting retrovirus-mediated gene transfer to human CD34+ cells. *J of Gene Med.* 2004; 6: 724-33.
20. Jordanides NE, Jorgensen HG, Holyoake TL, Mountford JC. Functional ABCG2 is overexpressed on primary CML CD34+ cells and is inhibited by imatinib mesylate. *Blood.* 2006 Aug 15;108(4):1370-3.
21. Kootstra NA, Munk C, Tonnu N, Landau NR, Verma IM. Abrogation of postentry restriction of HIV-1-based lentiviral vector transduction in simian cells. *PNAS.* 2003; 100(3): 1298-303.
22. Laitala-Leinonen T. Unsatisfactory gene transfer into bone-resorbing osteoclasts with liposomal transfection systems. *J Neg Results in BioMed.* 2005; 4(5).
23. Ma Y, Cui W, Yang J, Qu J, Di C, Amin HM, Lai R, Ritz J, Krause DS, Chai L. SALL4, a novel oncogene, is constitutively expressed in human acute myeloid leukemia (AML) and induces AML in transgenic mice. *Blood.* 2006 Oct 15;108(8):2726-35.
24. Matsuda A, Okayama Y, Ebihara N, Yokoi N, Gao P, Hamuro J, Hopkin JM, Kinoshita S. High-affinity IgE receptor-beta chain expression in human mast cells. *J Immunol Methods.* 2008 Jul 31;336(2):229-34.
25. Matsumura-Takeda K, Ishida T, Sogo S, Isakari Y, Taki T, Sudo T, Kiwada H. Lactoferrin inhibits platelet production from human megakaryocytes in vitro. *Biol Pharm Bull.* 2008 Apr;31(4):569-73.
26. Meck MM, Wierdl M, Wagner LM, Burger RA, Guichard SM, Krull EJ, Harris LC, Potter PM, Danks MK. A virus-directed enzyme prodrug therapy approach to purging neuroblastoma cells from hematopoietic cells using adenovirus encoding rabbit carboxylesterase and CPT-11. *Canc Res.* 2001; 61: 5083-9.
27. Moneypenny CG, Shao J, Song Y, Gallagher EP. MLL rearrangements are induced by low doses of etoposide in human fetal hematopoietic stem cells. *Carcinogenesis.* 2006 Apr; 27(4):874-81.
28. Moutouh-de Parseval LA, Verhelle D, Glezer E, Jensen-Pergakes K, Ferguson GD, Corral LG, Morris CL, Muller G, Brady H, Chan K. Pomalidomide and lenalidomide regulate erythropoiesis and fetal hemoglobin production in human CD34+ cells. *J Clin Invest.* 2008 Jan;118(1):248-58.
29. Murakami S, Sakurai F, Kawabata K, Okada N, Fujita T, Yamamoto A, Hayakawa T, Mizuguchi H. Interaction of penton base Arg-Gly-Asp motifs with integrins is crucial for adenovirus serotype 35 vector transduction in human hematopoietic cells. *Gene Ther.* 2007 Nov;14(21):1525-33.
30. Nakamura T, Miyakawa Y, Miyamura A, Yamane A, Suzuki H, Ito M, Ohnishi Y, Ishiwata N, Ikeda Y, Tsuruzoe N. A novel nonpeptidyl human c-Mpl activator stimulates human megakaryopoiesis and thrombopoiesis. *Blood.* 2006 Jun 1;107(11):4300-7.
31. Nguyen TK, Rahmani M, Gao N, Kramer L, Corbin AS, Druker BJ, Dent P, Grant S. Synergistic interactions between DMAG and mitogen-activated protein kinase kinase 1/2 inhibitors in Bcr/abl+ leukemia cells sensitive and resistant to imatinib mesylate. *Clin Cancer Res.* 2006 Apr 1;12(7 Pt 1):2239-47.
32. Ong CH, He Z, Kriazhev L, Shan X, Palfree RG, Bateman A. Regulation of granulin expression in myeloid cells. *Am J Physiol Regul Integr Comp Physiol.* 2006 Dec; 291(6):R1602-12.
33. Ono F, Sharma BK, Smith CC, Burnett JW, Aurelian L. CD34+ cells in the peripheral blood transport herpes simplex virus DNA fragments to the skin of patients with erythema multiforme (HAEM). *J Invest Dermatol.* 2005; 124(6): 1215-24.
34. Ozpolat B, Akar U, Steiner M, Zorrilla-Calancha I, Tirado-Gomez M, Colburn N,

- Danilenko M, Kornblau S, Berestein GL. Programmed cell death-4 tumor suppressor protein contributes to retinoic acid-induced terminal granulocytic differentiation of human myeloid leukemia cells. *Mol Cancer Res.* 2007 Jan;5(1):95-108.
35. Rink L, Slupianek A, Stoklosa T, Nieborowska-Skorska M, Urbanska K, Seferynska I, Reiss K, Skorski T. Enhanced phosphorylation of Nbs1, a member of DNA repair/checkpoint complex Mre11-RAD50-Nbs1, can be targeted to increase the efficacy of imatinib mesylate against BCR/ABL-positive leukemia cells. *Blood.* 2007 Jul 15;110(2):651-60.
36. Rissanen JP, Suominen MI, Peng Z, Halleen JM. Secreted tartrate-resistant acid phosphatase 5b is a marker of osteoclast number in human osteoclast cultures and the rat ovariectomy model. *Calcif Tissue Int.* 2008 Feb;82(2):108-15.
37. Rosato RR, Almenara JA, Coe S, Grant S. The multikinase inhibitor sorafenib potentiates TRAIL lethality in human leukemia cells in association with Mcl-1 and cFLIPL down-regulation. *Cancer Res.* 2007 Oct 1;67(19):9490-500.
38. Sakurai F, Akitomo K, Kawabata K, Hayakawa T, Mizuguchi H. Downregulation of human CD46 by adenovirus serotype 35 vectors. *Gene Ther.* 2007 Jun;14(11):912-9.
39. Sassetti C, Van Zante A, Rosen SD. Identification of endoglycan, member of the CD34/podocalyxin family of sialomucins. *J Biol Hematol.* 2000; 275(12): 9001-10.
40. Saxonhouse MA, Rimsza LM, Stevens G, Jouei N, Christensen RD, Sola MC. Effects of hypoxia on megakaryocyte progenitors obtained from the umbilical cord blood of term and preterm neonates. *Biol Neonate.* 2006; 89(2):104-8.
41. Stoklosa T, Poplawski T, Koptyra M, Nieborowska-Skorska M, Basak G, Slupianek A, Rayevskaya M, Seferynska I, Herrera L, Blasiak J, Skorski T. BCR/ABL inhibits mismatch repair to protect from apoptosis and induce point mutations. *Cancer Res.* 2008 Apr 15;68(8):2576-80.
42. Sun Y, Stevanovic S, Song M, Schwantes A, Kirkpatrick CJ, Schadendorf D, Cichutek K. The kinase insert domain-containing receptor is an angiogenesis-associated antigen recognized by human cytotoxic T lymphocytes. *Blood.* 2006 Feb 15; 107(4):1476-83.
43. Suzuki K, Kiyokawa N, Taguchi T, Takenouchi H, Saito M, Shimizu T, Okita H, Fujimoto J. Characterization of monocyte-macrophage-lineage cells induced from CD34+ bone marrow cells in vitro. *Int J Hematol.* 2007 Jun;85(5):384-9.
44. Taguchi T, Takenouchi H, Shiozawa Y, Matsui J, Kitamura N, Miyagawa Y, Katagiri YU, Takahashi T, Okita H, Fujimoto J, Kiyokawa N. Interleukin-7 contributes to human pro-B-cell development in a mouse stromal cell-dependent culture system. *Exp Hematol.* 2007 Sep;35(9):1398-407.
45. Tei K, Matsumoto T, Mifune Y, Ishida K, Sasaki K, Shoji T, Kubo S, Kawamoto A, Asahara T, Kurosaka M, Kuroda R. Administrations of peripheral blood CD34-positive cells contribute to medial collateral ligament healing via vasculogenesis. *Stem Cells.* 2008 Mar;26(3):819-30.
46. Wagner LM, Burger RA, Guichard SM, Raimondi SC, Santana VM, Furman WL, Barnette P, Danks MK. Pilot study to evaluate MYCN expression as a neuroblastoma cell marker to detect minimal residual disease by RT-PCR. *J Pediatr Hematol Oncol.* 2006 Oct;28(10):635-41.
47. Wagner LM, Guichard SM, Burger RA, Morton CL, Straign CM, Ashmun RA, Harris LC, Houghton PJ, Potter PM, Danks MK. Efficacy and toxicity of a virus-directed enzyme prodrug therapy purging method: preclinical assessment and application to bone marrow samples from neuroblastoma patients. *Cancer Res.* 2002; 62: 2001-7.
48. Yamane N, Tanaka Y, Ohyabu N, Yamane S, Maekawa K, Ishizaki J, Suzuki R, Itoh T, Takemoto H. Characterization of novel non-peptide thrombopoietin mimetics, their species specificity and the activation mechanism of the thrombopoietin receptor. *Eur J Pharmacol.* 2008 May 31;586(1-3):44-51.
49. Yang D, Chen Q, Stoll S, Chen X, Zack-Howard OM, Oppenheim JJ. Differential regulation of responsiveness to fMLP and C5a upon dendritic cell maturation: correlation with receptor expression. *J Immunol.* 2000; 165: 2694-702.
50. Yang S, Rosenberg HF, Chen Q, Dyer KD, Kurosaka K, Oppenheim JJ. Eosinophil-derived neurotoxin (EDN), an antimicrobial protein with chemotactic activities for dendritic cells. *Blood.* 2003; 102(9): 3396-403.

51. Yoshida A, Takemura H, Inoue H, Miyashita T, Ueda T. Inhibition of glutathione synthesis overcomes Bcl-2-mediated topoisomerase inhibitor resistance and induces nonapoptotic cell death via mitochondrial-independent pathway. *Cancer Res.* 2006 Jun 1; 66(11):5772-80.
52. Yu SS, Dan K, Chono H, Chatani E, Mineno J, Kato I. Transient gene expression mediated by integrase-defective retroviral vectors. *Biochem Biophys Res Commun.* 2008 Apr 18;368(4):942-7.
53. Zhou G, Chen J, Lee S, Clark T, Rowley JD, Wang SM. The pattern of gene expression in human CD34+ stem-progenitor cells. *PNAS.* 2001; 98(24): 1396-7.

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1. Drayer AL, Olthof SG, Vellenga E. Mammalian target of rapamycin is required for thrombopoietin-induced proliferation of megakaryocyte progenitors. *Stem Cells.* 2006 Jan;24(1):105-14.
2. Massa M, Rosti V, Ramajoli I, Campanelli R, Pecci A, Viarengo G, Meli V, Marchetti M, Hoffman R, Barosi G. Circulating CD34+, CD 133+, and vascular endothelial growth factor receptor-2 positive endothelial progenitor cells in myelofibrosis with myeloid metaplasia. *J Clin Onco.* 2005; 23(24): 5688-95.

* References not specifically citing the use of Lonza cells, media, or reagents in their research.

+ Denotes sections containing only the articles published within the last ten years.