

- Src-family membrane kinases by CD45. *Immunol Today* 1999; 20: 406-411
15. Tedder TF: Introduction: response-regulators of B lymphocyte signaling thresholds provide a context for antigen receptor signal transduction. *Semin Immunol* 1998; 10: 259-265
 16. Sato S, Tuscano JM, Inaoki M, Tedder TF: CD22 negatively and positively regulates signal transduction through the B lymphocyte antigen receptor. *Semin Immunol* 1998; 10: 287-297
 17. Fujimoto M, Poe JC, Inaoki M, Tedder TF: CD19 regulates B lymphocyte responses to transmembrane signals. *Semin Immunol* 1998; 10: 267-277
 18. Carter RH, Doody GM, Bolen JB, Fearon DT: Membrane IgM-induced tyrosine phosphorylation of CD19 requires a CD19 domain that mediates association with components of the B cell antigen receptor complex. *J Immunol* 1997; 158: 3062-3069
 19. Leprince C, Draves KE, Geahlen RL, Ledbetter JA, Clark EA: CD22 associates with the human surface IgM-B cell antigen receptor complex. *Proc Natl Acad Sci USA* 1993; 90: 3236-3240
 20. Peaker CJ, Neuberger MS: Association of CD22 with the B cell antigen receptor. *Eur J Immunol* 1993; 23: 1358-1363
 21. Fujimoto M, Poe JC, Jansen PJ, Sato S, Tedder TF: CD19 amplifies B lymphocyte signal transduction by regulating Src-family protein tyrosine kinase activation. *J Immunol* 1999; 162: 7088-7094
 22. Tedder TF, Inaoki M, Sato S: The CD19-CD21 complex regulates signal transduction thresholds governing humoral immunity and autoimmunity. *Immunity* 1997; 6: 107-118
 23. Goodnow CC: Balancing immunity and tolerance: deleting and tuning lymphocyte repertoires. *Proc Natl Acad Sci USA* 1996; 93: 2264-2271
 24. Sato S, Ono N, Steeber DA, Pisetsky DS, Tedder TF: CD19 regulates B lymphocyte signaling thresholds critical for the development of B-1 lineage cells and autoimmunity. *J Immunol* 1996; 157: 4371-4378
 25. Inaoki M, Sato S, Weintraub BC, Goodnow CC, Tedder TF: CD19-regulated signaling thresholds control peripheral tolerance and autoantibody production in B lymphocytes. *J Exp Med* 1997; 186: 1923-1931
 26. Prodeus AP, Goerg S, Shen LM, Pozdnyakova OO, Chu L, Alicot EM, Goodnow CC, Carroll MC: A critical role for complement in maintenance of self-tolerance. *Immunity* 1998; 9: 721-731
 27. O'Keefe TL, Williams GT, Batista FD, Neuberger MS: Deficiency in CD22, a B cell-specific inhibitory receptor, is sufficient to predispose to development of high affinity autoantibodies. *J Exp Med* 1999; 189: 1307-1313
 28. Nishizumi H, Taniuchi I, Yamanashi Y, Kitamura D, Ilic D, Mori S, Watanabe T, Yamamoto T: Impaired proliferation of peripheral B cells and indication of autoimmune disease in lyn-deficient mice. *Immunity* 1995; 3: 549-560
 29. Hibbs ML, Tarlinton DM, Armes J, Grail D, Hodgson G, Maglitto R, Stacker SA, Dunn AR: Multiple defects in the immune system of Lyn-deficient mice, culminating in autoimmune disease. *Cell* 1995; 83: 301-311
 30. Tsui HW, Siminovitch KA, de Souza L, Tsui FW: Motheaten and viable motheaten mice have mutations in the haematopoietic cell phosphatase gene. *Nat Genet* 1993; 4: 124-129
 31. Okano Y: Antinuclear antibody in systemic sclerosis (scleroderma). *Rheum Dis Clin North Am* 1996; 22: 709-735
 32. Sato S, Steeber DA, Jansen PJ, Tedder TF: CD19 expression levels regulate B lymphocyte development: human CD19 restores normal function in mice lacking endogenous CD19. *J Immunol* 1997; 158: 4662-4669
 33. Krop I, Shaffer AL, Fearon DT, Schlissel MS: The signaling activity of murine CD19 is regulated during cell development. *J Immunol* 1996; 157: 48-56
 34. Boyd AW, Anderson KC, Freedman AS, Fisher DC, Slaughenhoupt B, Schlossman SF, Nadler LM: Studies of in vitro activation and differentiation of human B lymphocytes. I. Phenotypic and functional characterization of the B cell population responding to anti-Ig antibody. *J Immunol* 1985; 134: 1516-1523
 35. Carroll MC: CD21/CD35 in B cell activation. *Semin Immunol* 1998; 10: 279-286
 36. Bradbury LE, Kansas GS, Levy S, Evans RL, Tedder TF: The CD19/CD21 signal transducing complex of human B lymphocytes includes the target of antiproliferative antibody-1 and Leu-13 molecules. *J Immunol* 1992; 149: 2841-2850
 37. Maecker HT, Todd SC, Levy S: The tetraspanin superfamily: molecular facilitators. *Faseb J* 1997; 11: 428-442
 38. Maecker HT, Levy S: Normal lymphocyte development but delayed humoral immune response in CD81-null mice. *J Exp Med* 1997; 185: 1505-1510
 39. Miyazaki T, Muller U, Campbell KS: Normal development but differentially altered proliferative responses of lymphocytes in mice lacking CD81. *Embo J* 1997; 16: 4217-4225
 40. Tsitsikov EN, Gutierrez-Ramos JC, Geha RS: Impaired CD19 expression and signaling enhanced antibody response to type II T independent antigen and reduction of B-1 cells in CD81-deficient mice. *Proc Natl Acad Sci USA* 1997; 94: 10844-10849
 41. Deblandre GA, Marinix OP, Evans SS, Majaj S, Leo O, Caput D, Huez GA, Wathélet MG: Expression cloning of an interferon-inducible 17-kDa membrane protein implicated in the control of cell growth. *J Biol Chem* 1995; 270: 23860-23866
 42. Bradbury LE, Goldmacher VS, Tedder TF: The CD19 signal transduction complex of B lymphocytes: deletion of the CD19 cytoplasmic domain alters signal transduction but not complex formation with TAPA-1 and Leu-13. *J Immunol* 1993; 151: 2915-2927
 43. Matsumoto AK, Martin DR, Carter RH, Klickstein LB, Ahearn JM, Fearon DT: Functional dissection of the CD21/CD19/TAPA-1/Leu-13 complex of B lymphocytes. *J Exp Med* 1993; 178: 1407-1417
 44. Fearon DT, Carter RH: The CD19/CR2/TAPA-1 complex of B lymphocytes: linking natural to acquired immunity. *Annu Rev Immunol* 1995; 13: 127-149
 45. van Noesel CJ, Lankester AC, van Lier RA: Dual antigen recognition by B cells. *Immunol Today* 1993; 14: 8-11
 46. Engel P, Zhou LJ, Ord DC, Sato S, Koller B, Tedder TF: Abnormal B lymphocyte development, activation, and differentiation in mice that lack or overexpress the CD19 signal transduction molecule. *Immunity* 1995; 3: 39-50
 47. Zhou LJ, Smith HM, Waldschmidt TJ, Schwarting R, Daley J, Tedder TF: Tissue-specific expression of the human CD19 gene in transgenic mice inhibits antigen-independent B lymphocyte development. *Mol Cell Biol* 1994; 14: 3884-3894
 48. Rickert RC, Rajewsky K, Roes J: Impairment of T-cell-dependent B-cell responses and B-1 cell development in CD19-deficient mice. *Nature* 1995; 376: 352-355
 49. Sato S, Steeber DA, Tedder TF: The CD19 signal transduction molecule is a response regulator of B-lymphocyte differentiation. *Proc Natl Acad Sci USA* 1995; 92: 11558-11562
 50. Sato S, Miller AS, Howard MC, Tedder TF: Regulation of B lymphocyte development and activation by the CD19/CD21/CD81/Leu 13 complex requires the cytoplasmic domain of CD19. *J Immunol* 1997; 159: 3278-3287
 51. Tedder TF, Isaacs CM: Isolation of cDNAs encoding the CD19 antigen of human and mouse B lymphocytes. A new member of the immunoglobulin superfamily. *J Immunol* 1989; 143: 712-717