

## Regulation of B cell Development by Antigen Receptors: Studies on the physiological roles of E2A transcription factors and their inhibition by calmodulin in B cell development



The E-protein E2A is well known for its many roles during B cell development. Antigen receptor signaling that leads to inhibition of E2A by the calcium-sensor protein calmodulin (CaM) has therefore very broad implications. The down-regulation of the surrogate light chains of the pre-B cell receptor and also the co-receptor CD19 was shown to be through CaM inhibition of E2A. Furthermore, several components of the Ig recombination machinery including RAG1 and RAG2 are down-regulated by this mechanism, and the recombination complex was shown to include the RAGs, Pax5 and E2A, which can be directly released from the Ig heavy chain locus by pre-B cell receptor signaling through CaM to achieve allelic exclusion. The tight regulation of the antibody diversification enzyme AID is also dependent on CaM inhibition of E2A, and a negative feedback regulation of the pre-B and B cell receptor proteins and co-receptors and proteins in signal pathways from the receptor was also shown to occur through E2A inhibition by CaM. Plasma cell differentiation is induced by very fast regulatory events, which are shown to be dependent on CaM inhibition of E2A.

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**introduction - DiVA** We identify activation of IFN regulatory factor-4 and down-regulation of Pax5, Bcl-6, B-cell receptor activation inhibits AID expression through calmodulin inhibition of Plasma cell development: from B-cell subsets to long-term survival niches Visualizing the effects of antigen affinity on T-dependent B-cell differentiation. **Figure 4 from Initiation of antigen receptor-dependent differentiation** Total RNA was isolated from B cells of three independent mice with and Initiation of antigen receptor-dependent differentiation into plasma cells by calmodulin inhibition of E2A. Germinal centres: role in B-cell physiology and malignancy . transcription factor of the interferon regulatory factor (IRF) family, develop a **Regulation of B cell Development by Antigen Receptors: Studies on** by Antigen Receptors. Studies on the physiological roles of E2A transcription factors and their inhibition by calmodulin in B cell development. **Regulation of B cell Development by Antigen Receptors: Studies on** by Antigen Receptors. Studies on the physiological roles of E2A transcription factors and their inhibition by calmodulin in B cell development. **Initiation of Antigen Receptor-Dependent Differentiation into Plasma** Regulation of B cell Development by Antigen Receptors: Studies on the physiological roles of E2A transcription factors and their inhibition by calmodulin in B cell development. The E-protein E2A is well known for its many roles during B cell development. eBay! **Differential Functions for the Transcription Factor E2A in Positive** Regulation of B cell Development by Antigen Receptors: Studies on the physiological roles of E2A transcription factors and their inhibition by calmodulin in B cell **Regulation of B cell Development by Antigen Receptors - buchoffzin** Changes in expression of different mRNA and proteins in B lymphocytes from mouse A, The effects of BCR activation on the expression of the indicated mRNA, determined by differentiation into plasma cells by calmodulin inhibition of E2A. transcription factor of the interferon regulatory factor (IRF) family, develop a **Figure 2 from Initiation of antigen receptor-dependent differentiation** A, Changes in expression of the indicated mRNA in DG75 B cells following BCR B, Effects of CaM overexpression on the indicated mRNA levels with and without differentiation into plasma cells by calmodulin inhibition of E2A. We identify activation of IFN regulatory factor-4 and down-regulation of Pax5, Bcl-6, MITE, **Regulation of B cell Development by Antigen Receptors - Lambert** It is well established that plasma cell development is Ag driven (1, 2, 3): signaling from Ag receptors (BCRs) with their membrane-bound Abs plays a key role in the start of A small group of transcription factors expressed in the B cells, signaling through inhibition of E2A by the Ca<sup>2+</sup> sensor calmodulin **Early B-cell factor, E2A, and Pax-5 cooperate to activate the early B** It is well established that plasma cell development is Ag driven (1, 2, 3): signaling from Ag receptors (BCRs) with their membrane-bound Abs plays a key role in the start of A small group of transcription factors expressed in the B cells, signaling through inhibition of E2A by the Ca<sup>2+</sup> sensor calmodulin **Regulation of B cell Development by Antigen Receptors: Studies on** These antigen receptors are generated through tightly regulated genomic of E2A function, it was not known whether E2A directly regulated their transcription. A conditional E2A deletion model was developed in our laboratory to For gene array studies, pre-B-cell lines were derived from bone marrow **Initiation of Antigen Receptor-Dependent Differentiation into Plasma Ca Signaling in B Cells - Hindawi** Buy Regulation of B cell Development by Antigen Receptors: Studies on the physiological roles of E2A transcription factors and their inhibition by calmodulin in **TCF3 transcription factor 3 [ (human)] - NCBI** A, E2A expression was reduced in DG75 B cells by a shuttle vector that Shown are the effects of the shuttle vector that expresses shRNA interfering with receptor-dependent differentiation into plasma cells by calmodulin inhibition of E2A. transcription factor of the interferon regulatory factor (IRF) family, develop a **Regulation of B cell Development by Antigen Receptors: Studies on** Previous studies have suggested that the early-B-cell-specific mb-1(Igalpha) promoter mb-1 transcripts correlates most closely with EBF expression and negatively with Id1, an inhibitor of E2A protein function, further linking regulation of the E2A, and Pax-5 cooperate to activate target genes in early B-cell development. **Search results for B Cell - MoreBooks!** Initiation of Antigen Receptor-Dependent Differentiation into Ag (1). It is well established that plasma cell development is Ag the shift in transcription factor

network from that of a B cell to .. Bcl-6, MITF, Ets-1, Fli-1, and Blimp1 genes, the effects of its over- .. Germinal centres: role in B-cell physiology. **Calcium Regulation and Functions of Basic Helix-Loop - DiVA portal** TRANSCRIPTION FACTOR NETWORKS DRIVE B CELL DEVELOPMENT . binding site for the Ca<sup>2+</sup> sensor protein calmodulin (CaM), and thus with genes, can increase the affinity for antigen, and antibody effector functions can be gene regulations by BCR stimulation, is through inhibition of E2A by Ca<sup>2+</sup>/CaM. Regulation of B cell Development by Antigen Receptors: Studies on the physiological roles of E2A transcription factors and their inhibition by calmodulin in B cell **introduction - DiVA** Scleraxis and E47 cooperatively regulate the Sox9-dependent transcription. Initiation of antigen receptor-dependent differentiation into plasma cells by calmodulin mice deficient for either E12 or E47 and examined their roles in B cell maturation. E2A proteins are required for proper B cell development and initiation of **Figure 6 from Initiation of antigen receptor-dependent differentiation** helix transcription factor E2-2 is involved in T lymphocyte development. calmodulin (Ca<sup>2+</sup>/CaM) has been shown to inhibit DNA binding of E-proteins, but not only in B-cell development, as reported before, but also in T-cell development. specific gene is the activation of its transcription, which is largely regulated by. **Regulation of B cell Development by Antigen Receptors: Studies on** Regulation of B cell Development by Antigen Receptors: Studies on the physiological roles of E2A transcription factors and their inhibition by calmodulin in B cell **Negative Feedback Regulation of Antigen Receptors through** Receptor Editing and Marginal Zone B Cell Development Are Regulated by Among these are the E2A proteins, early B cell factor (EBF) and Pax-5 (1417). Finally, our observations demonstrate that the E2A proteins and their antagonist, Id3, of intracellular E47 expression, cells were first stained for surface antigens, **Regulation of B cell Development by Antigen Receptors: Studies on** Regulation of B cell Development by Antigen Receptors. Studies on the physiological roles of E2A transcription factors and their inhibition by calmodulin in B cell **Regulation of B cell Development by Antigen Receptors: Studies on** TRANSCRIPTION FACTOR NETWORKS DRIVE B CELL DEVELOPMENT . binding site for the Ca<sup>2+</sup> sensor protein calmodulin (CaM), and thus with genes, can increase the affinity for antigen, and antibody effector functions can be gene regulations by BCR stimulation, is through inhibition of E2A by Ca<sup>2+</sup>/CaM. **Receptor Editing and Marginal Zone B Cell Development Are** E proteins activate transcription by binding to regulatory E-box and the encoded protein is required for B and T lymphocyte development. Review of the role of the E2A-PBX1 gene rearrangement in the (AID) and transcription factor E47 in B Cells through binding of the 3'-untranslated regions. **Regulation of B cell Development by Antigen Receptors / 978-3** Regulation of B cell Development by Antigen Receptors. Studies on the physiological roles of E2A transcription factors and their inhibition by calmodulin in B cell **Figure 3 from Initiation of antigen receptor-dependent differentiation** In contrast to T cells, the role of STIM1 in antigen receptor-mediated Ca<sup>2+</sup> STIM/Orai-mediated influx comes from nonB-cell studies, including T cells, insect cells, and .. rely on the development of calmodulin/FRET-based Ca<sup>2+</sup> sensors[79] targeted . upon pre-BCR activation through inhibition of the E2A transcription.

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