



Negative Co-Receptors and Ligands

By Rafi Ahmed

Springer-Verlag GmbH Apr 2011, 2011. Buch. Condition: Neu. Neuware - Adaptive immune responses serve as a key defense mechanism for the control of infections in vertebrates. Immune responses must be of sufficient strength to contain invading pathogens, antigen specific responses require regulatory mechanisms to ensure termination or downmodulation to avoid excessive damage to the host tissue. For both branches of the adaptive immune system, regulatory molecules i.e. coreceptors and ligands have been identified that control the signaling cascades initiated by engagement of the T cell and B cell antigen receptors. This book describes biological functions as well as molecular mechanisms of these molecules. Fc Receptor-Like molecules (FCRL) that have garnered increasing interest due to their differential patterns of lymphocyte expression and potential involvement in the pathogenesis of autoimmune disorders, immunodeficiency and lymphoid malignancies in humans. Programmed cell death-1 (PD-1) delivers negative signals upon interaction with its two ligands, PD-L1 or PD-L2. The biological significance of PD-1 and its ligand suggest the therapeutic potential of manipulation of PD-1 pathway against various human diseases. TIM-3 acts as a negative regulator of Th1/Tc1 cell function by triggering cell death upon interaction with its ligand, galectin-9. This negative regulatory function of TIM-3 has now...



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