Complement System

Pathway



CLASSICAL PATHWAY ALTERNATIVE PATHWAY C1 Complex Microbe surface 3 convertase C4BP, CD46, FactorI C5 convertase C5 convertase CR1, CR2, MCP, CD46, FactorI CD59 Membrane Attack Complex (MAC) Plasma membrane Phosphatase Ligand Transcription Fact@ther Receptor Phospho Membrane Cell Function Binding/ Activation Inhibition Indirect Effect Dissociation Activation Association

The complement system plays an important role in host defense against infectious agents, as well as, in the inflammation process. This system is comprised of numerous plasma proteins that act as an enzyme or binding protein. The complement system includes distinct cell-surface receptors that are specific for physiological fragments of complement proteins. The classical pathway is the major effector of antibody action. The activation of this pathway promotes opsonophagocytic killing, serum bactericidal activity, and removal of immune complexes.