

CD Marker	Function
CD 1	- MHC I-like molecule that present lipids to T cells
CD 2 (LFA-2)	- Cell adhesion molecule on NK & T cells; binds CD58 (LFA-3) on APCs to form immunological synapse
CD 3	- On all T cells; initiates signal transduction (using ITAMS) of TCR complex
CD 4	- On TH cells; binds MHC II on APCs (co-receptor w/ TCR)
CD 8	- On CTL cells; binds MHC I (co-receptor w/ TCR)
CD 11 (LFA-1 $\alpha$ )	- $\beta$ -2 Integrin; <b>Deficiency</b> $\rightarrow$ <b>LAD I</b> (neutrophils unable to bind ICAM $\rightarrow$ skin infections w/ no pus)
CD 14	- On phagocytic cells; binds LPS-LBP (PRR - pattern recognition receptor)
CD 16 (FC $\gamma$ RIIIA)	- On NK & Phagocytes (M $\emptyset$ & Neutrophils); Fc receptor for IgG opsonized bacteria $\rightarrow$ ADCC
CD 18 (LFA-1 $\beta$ )	- $\beta$ -2 Integrin; <b>Deficiency</b> $\rightarrow$ <b>LAD I</b> (neutrophils unable to bind ICAM $\rightarrow$ skin infections w/ no pus)
CD 19	- On B cells from "Pro" stage onwards
CD 20	- On B cells from "Pre" stage onwards; <b>Anti-CD20 (Rituximab) given in Duncan Syndrome</b>
CD 21	- EBV receptor: CR2 on B cells - arker for TReg Cells
CD 25 (IL-2R $\alpha$ )	- Marker for TReg Cells
CD 28	- On T cells; binds B7 (CD80/86) on APC; Acts as 2 $^{\circ}$ co-stimulatory signal
CD 32 (FC $\gamma$ RIIB)	- Feedback inhibition on B cell antibody production; $\downarrow$ inflammation
CD 34	- Marker for HSC (hematopoietic stem cells)
CD 35	- CR1 receptor for C3b or C4b
CD 36	- Scavenger Receptor
CD 40	- On APCs; binds CD40L (CD154) on T cells; <b>Deficiency</b> $\rightarrow$ <b>Hyper IgM Syndrome (autosomal)</b>
CD 40L (CD154)	- On T cells; binds CD40 on APCs; <b>Deficiency</b> $\rightarrow$ <b>Hyper IgM Syndrome (X linked)</b>
CD 45	- Protein Tyrosine Phosphate involved in the differentiation of hematopoietic cells
CD 46	- MCP (membrane cofactor protein) - cofactor for factor I mediated cleavage of C3b & C4b
CD 55	- DAF (decay accelerating factor) regulatory protein for both C3 Convertases (C3bBb & C4b2a) - <b>Deficiency</b> $\rightarrow$ <b>Paroxysmal Nocturnal Hemoglobinuria</b>
CD 56	- Marker for NK cells
CD 58 (LFA-3)	- On APCs; binds CD2 (LFA-2) on TH cells to form immunological synapse
CD 59	- MIRL (membrane inhibitor of reactive lysis) prevents C9 polymerization in MAC
CD 79a (Ig $\alpha$ )	- Heterodimer molecule on B cells activates ITAM (immunoreceptor tyrosine-based activating receptor)
CD 79b (Ig $\beta$ )	
CD 80/86 (B7)	- On APCs; binds CD28 on T cells; Acts as 2 $^{\circ}$ co-stimulatory signal
CD 95L (FasL)	- On CTLs; when bound to FasR $\rightarrow$ Apoptosis; <b>Deficiency</b> $\rightarrow$ <b>A.I. Lymphoproliferative (Canale-Smith) Syndrome</b>
CD 132 (IL-2R $\gamma$ )	- Common Gamma chain; <b>Defect</b> $\rightarrow$ <b>XSCID (T- B+ NK-)</b>
CD 152 (CTLA-4)	- On T cells; binds B7 (CD80/86) on APC; Inhibitory signal ( $\downarrow$ IL-2 synthesis); <b>Mutations</b> $\rightarrow$ <b>Autoimmunity</b>

