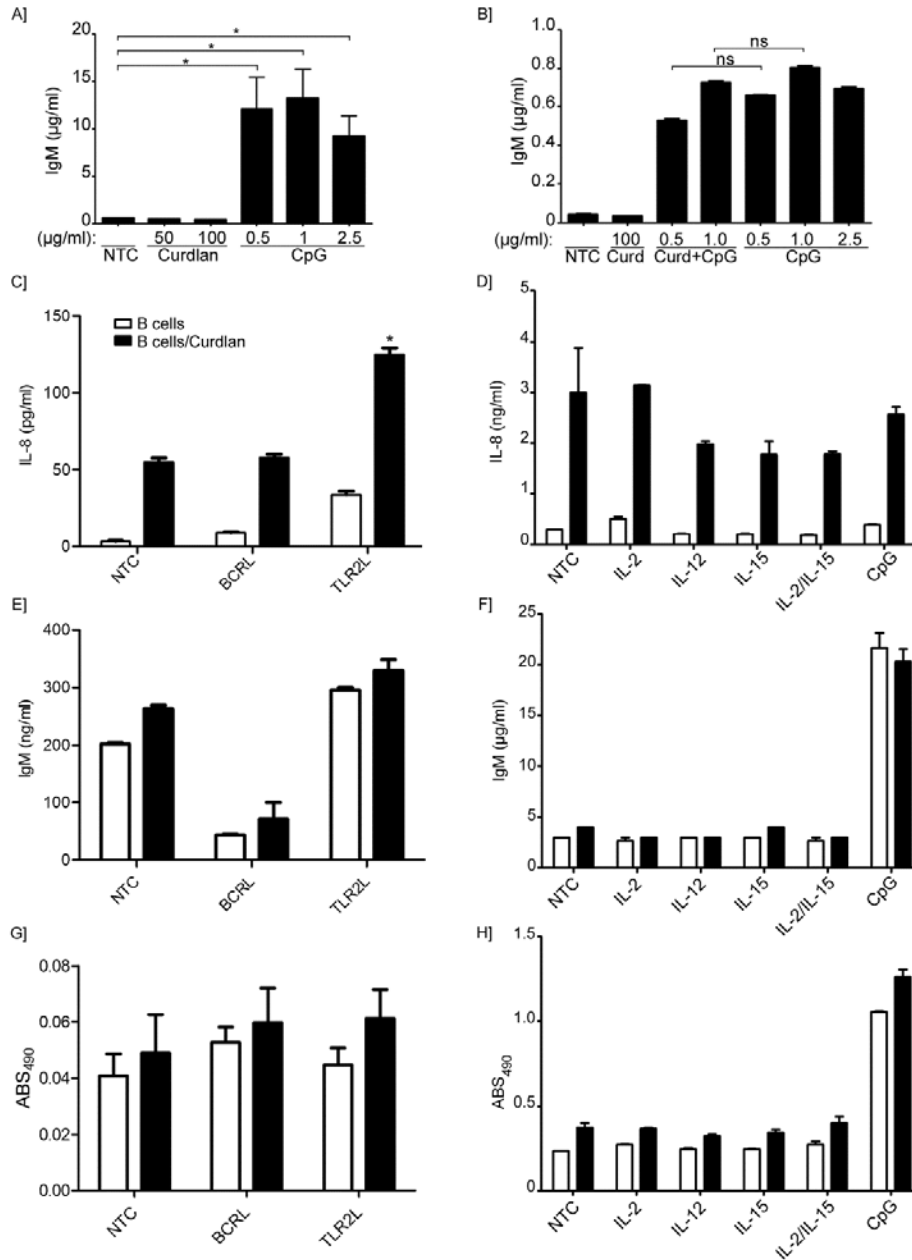**Supplement Table 1.** Oligonucleotide primers used for quantitative real-time PCR analysis.
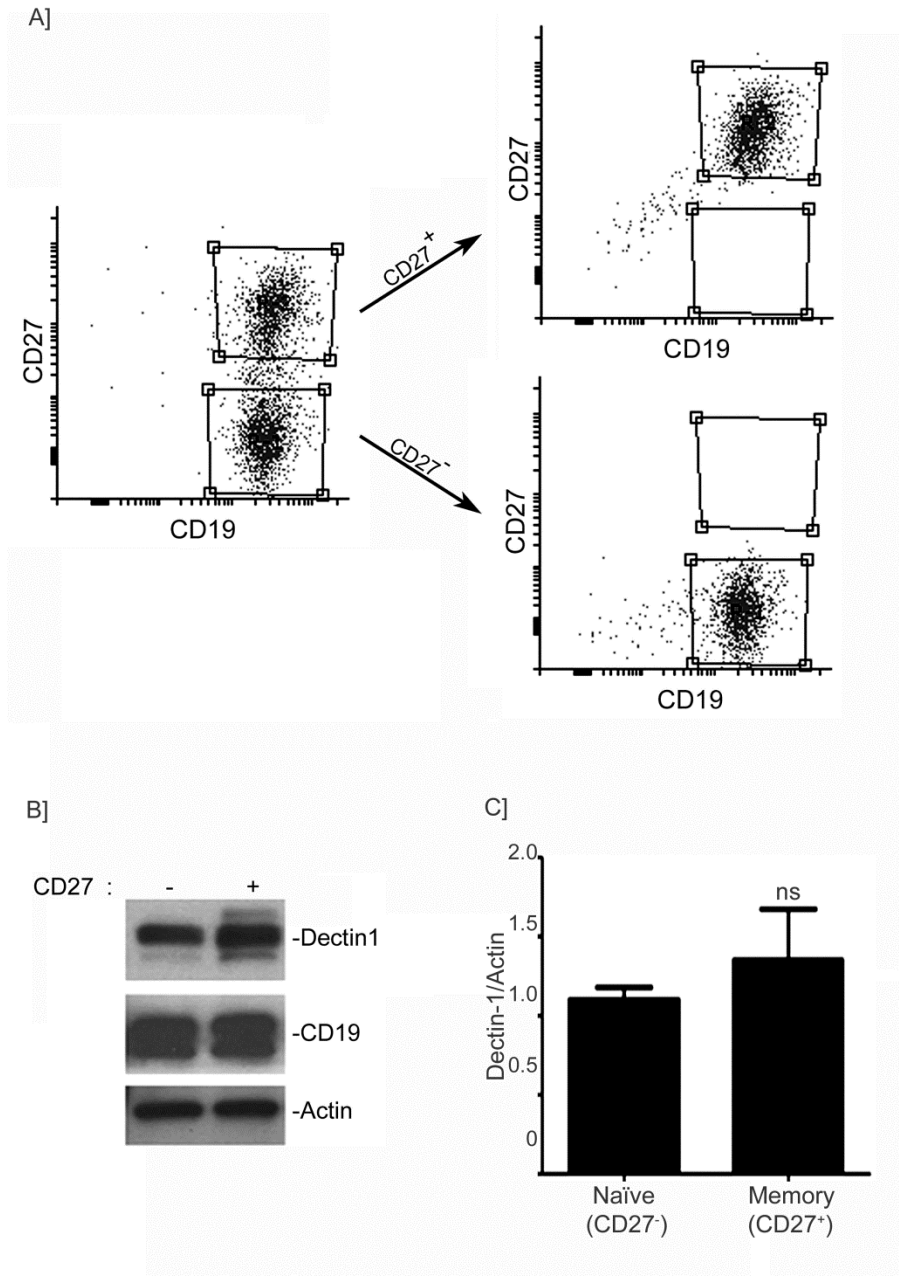
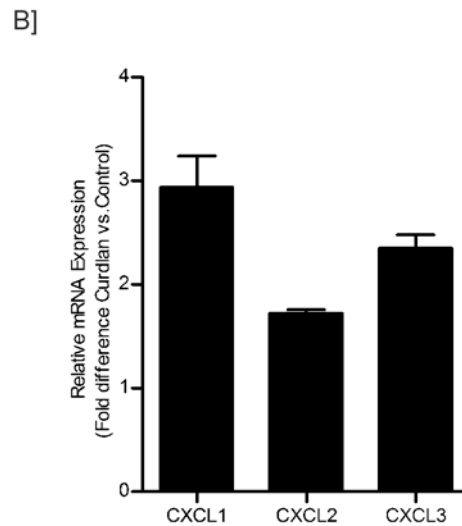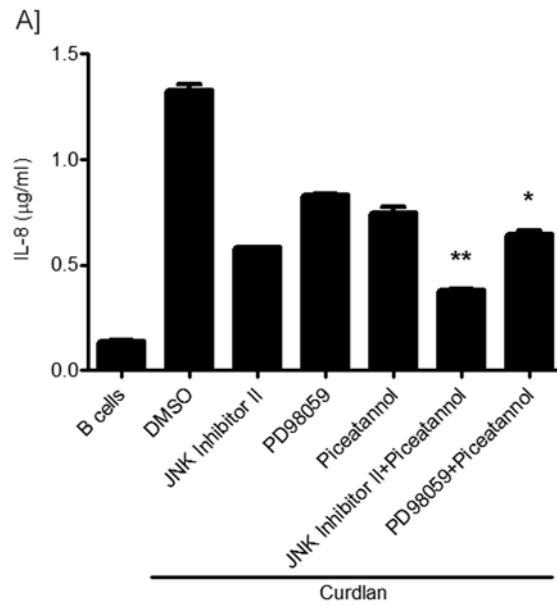| Gene	Forward	Reverse
GAPDH	5'- ACATCGCTCAGACACCATG	5'- TGTAGTTGAGGTCAATGAAGGG
IL4	5'- AGCTGATCCGATTCCTGAAAC	5`- AACGTACTCTGGTTGGCTTC
IL6	5'- CCACTCACCTCTTCAGAACG	5'- CATCTTTGGAAGGTTCAGGTTG
IL8	5'- ATACTCCAAACCTTTCCACCC	5'- TCTGCACCCAGTTTTCCTTG
IL10	5'- CGCATGTGAACTCCCTGG	5'- TAGATGCCTTTCTCTTGGAGC
IL12	5'- CACATTCCTACTTCTCCCTGAC	5'- CTGAGGTCTTGTCCGTGAAG
IL13	5'- AACATCACCCAGAACCAGAAG	5'- ACACGTTGATCAGGGATTCC
IL18	5'- CATTGACCAAGGAAATCGGC	5'- CACAGAGATAGTTACAGCCATACC
IFNG	5'- GCATCGTTTTGGGTTCTCTTG	5'- AGTTCCATTATCCGCTACATCTG
TNF	5'- ACTTTGGAGTGATCGGCC	5'- GCTTGAGGGTTTGCTACAAC
DC-SIGN	5'- CCTGGATGGGACTTTCAGATC	5'- GCCATTGCCACTAAATTCCG
DECTIN-1	5'- ACAAGTGTCTTCCCAACCTG	5'- TGGAGATGGGTTTTCTTGGG
DECTIN-2	5'- TGAAGAGAAGGTTTGGTCTAAGAG	5'- AGCCCCAGAAAATAAGAAAATGAC
LANGERIN	5'- GACTAAAGCAGGGATGGAAGG	5'- TGAGGGAGCCTTTATATTGCC
MCL	5'- ACGGCTTTCCTATTTCCTTGG	5'- TGAGAGTTGTCGGGTTCATTC
MINCLE	5'- GGTTGTCGAGGGTCAGTG	5'- TGCCTTGGGTTTGAAGAGTC
IL4	5'- AGCTGATCCGATTCCTGAAAC	5'- AACGTACTCTGGTTGGCTTC
CXCL1	5`- AACCGAAGTCATAGCCACAC	5`- CCTCCCTTCTGGTCAGTTG
CXCL2	5`- AACCGAAGTCATAGCCACAC	5`- CTTCTGGTCAGTTGGATTTGC
CXCL3	5`- AAGTGTGAATGTAAGGTCCCC	5`- GTGCTCCCCTTGTTCAGTATC

Supplement Figure 1.

B-lymphocyte responses to co-stimulatory signals. A and B) IgM measured by ELISA in the supernatants of NTC or B-lymphocytes stimulated as indicated. *$p<0.0001$*. **C-F)** IL-8 and IgM were measured in the supernatants of NTC or treated cells as indicated. Pam3CSK4 (TLR2L) was from Invivogen (San Diego, CA) and BCRL is a Fab[2] anti human IgA/G/M from Jackson ImmunoResearch (West Grove, PA). IL-2, IL-12, IL-15 cytokines were a gift from Dr. Diane F. Jelinek (Mayo Clinic, Phoenix, AZ). **G and H)** B-lymphocytes proliferation was measured by XTT proliferation assay. *$p<0.01$ when compared with TLR2L stimulation alone or β-glucan stimulated cells.

Supplement Figure 2.

Dectin-1 expression in naïve and memory cells. A) Flow cytometry showing the sorting of human CD19$^+$ B-lymphocytes into naïve (CD27$^-$) and memory (CD27$^+$) B-lymphocytes. Antibodies used were mouse anti-human CD27-APC-Vio770 and mouse anti-human CD19-PE from Miltenyi Biotec (San Diego, CA). **B and C)** Dectin-1 protein expression and quantification in naïve and memory B-lymphocytes. CD19 antibody used for western blot was a rabbit anti-human CD19 (GeneTex, Irvine, CA).Western blots were quantified using ImageJ software.

Supplement Figure 3.

Curdlan mediated cell signaling and chemokine expression. A) IL-8 was measured in the cell supernatant of NTC and curdlan-stimulated B-lymphocytes. Cells were pretreated for 1 hour as indicated. **$p<0.0001$ and *$p< 0.01$ when compared with each inhibitor alone. **B)** Quantitative PCR analysis showing relative mRNA expression of chemokines after 24 hour stimulation of B-lymphocytes by curdlan.