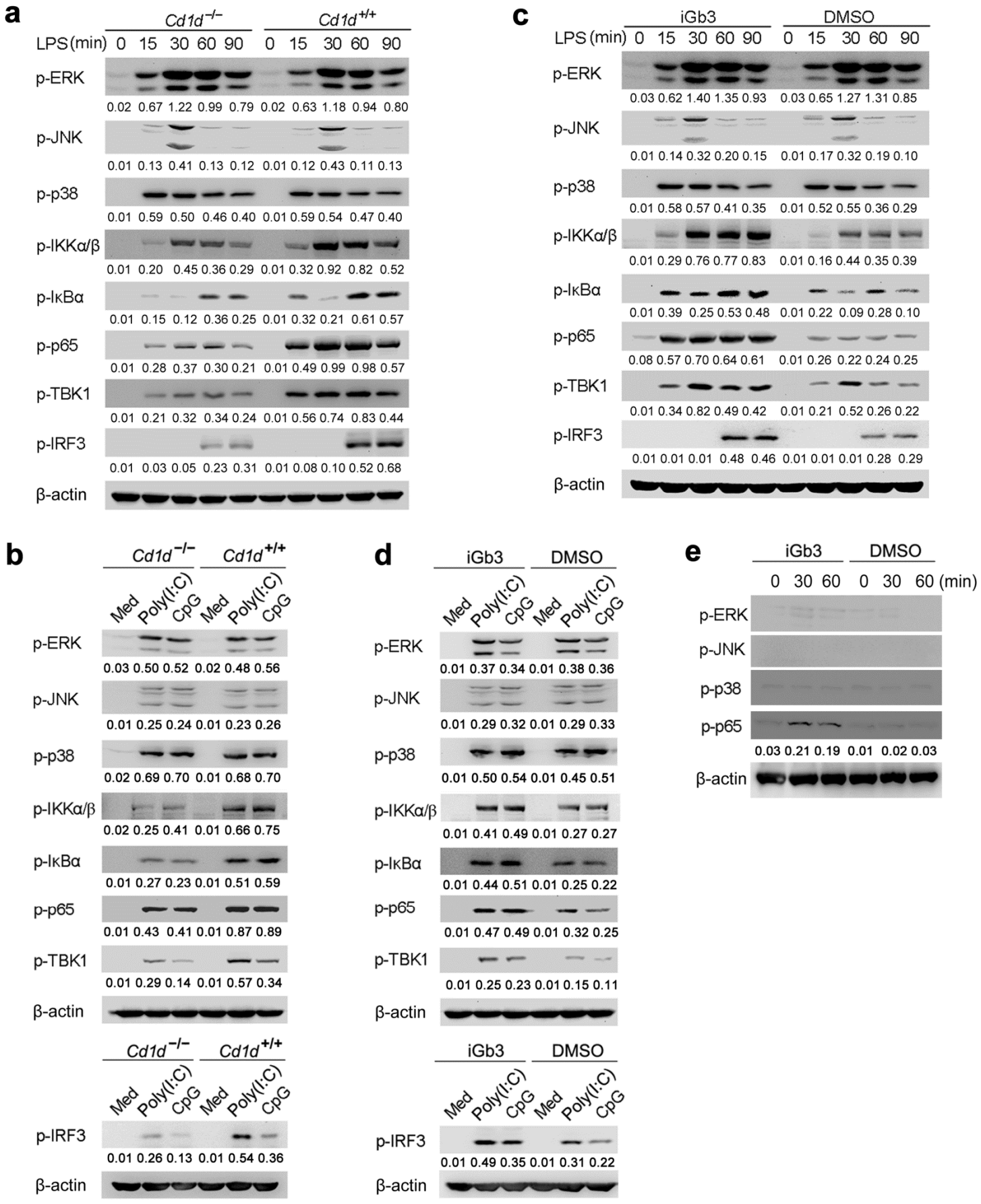
a
Cd1d−/−
Cd1d+/+
LPS (min) 0 15 30 60 90 0 15 30 60 90
p-ERK
0.02 0.67 1.22 0.99 0.79 0.02 0.63 1.18 0.94 0.80
p-JNK
0.01 0.13 0.41 0.13 0.12 0.01 0.12 0.43 0.11 0.13
p-p38
0.01 0.59 0.50 0.46 0.40 0.01 0.59 0.54 0.47 0.40
p-IKKα/β
0.01 0.20 0.45 0.36 0.29 0.01 0.32 0.92 0.82 0.52
p-IκBα
0.01 0.15 0.12 0.36 0.25 0.01 0.32 0.21 0.61 0.57
p-p65
0.01 0.28 0.37 0.30 0.21 0.01 0.49 0.99 0.98 0.57
p-TBK1
0.01 0.21 0.32 0.34 0.24 0.01 0.56 0.74 0.83 0.44
p-IRF3
0.01 0.03 0.05 0.23 0.31 0.01 0.08 0.10 0.52 0.68
β-actin
c
iGb3
DMSO
LPS (min) 0 15 30 60 90 0 15 30 60 90
p-ERK
0.03 0.62 1.40 1.35 0.93 0.03 0.65 1.27 1.31 0.85
p-JNK
0.01 0.14 0.32 0.20 0.15 0.01 0.17 0.32 0.19 0.10
p-p38
0.01 0.58 0.57 0.41 0.35 0.01 0.52 0.55 0.36 0.29
p-IKKα/β
0.01 0.29 0.76 0.77 0.83 0.01 0.16 0.44 0.35 0.39
p-IκBα
0.01 0.39 0.25 0.53 0.48 0.01 0.22 0.09 0.28 0.10
p-p65
0.08 0.57 0.70 0.64 0.61 0.01 0.26 0.22 0.24 0.25
p-TBK1
0.01 0.34 0.82 0.49 0.42 0.01 0.21 0.52 0.26 0.22
p-IRF3
0.01 0.01 0.01 0.48 0.46 0.01 0.01 0.01 0.28 0.29
β-actin
b
Cd1d−/−
Cd1d+/+
Med Poly(I:C) CpG Med Poly(I:C) CpG
p-ERK
0.03 0.50 0.52 0.02 0.48 0.56
p-JNK
0.01 0.25 0.24 0.01 0.23 0.26
p-p38
0.02 0.69 0.70 0.01 0.68 0.70
p-IKKα/β
0.02 0.25 0.41 0.01 0.66 0.75
p-IκBα
0.01 0.27 0.23 0.01 0.51 0.59
p-p65
0.01 0.43 0.41 0.01 0.87 0.89
p-TBK1
0.01 0.29 0.14 0.01 0.57 0.34
β-actin
Cd1d−/−
Cd1d+/+
Med Poly(I:C) CpG Med Poly(I:C) CpG
p-IRF3
0.01 0.26 0.13 0.01 0.54 0.36
β-actin
d
iGb3
DMSO
Med Poly(I:C) CpG Med Poly(I:C) CpG
p-ERK
0.01 0.37 0.34 0.01 0.38 0.36
p-JNK
0.01 0.29 0.32 0.01 0.29 0.33
p-p38
0.01 0.50 0.54 0.01 0.45 0.51
p-IKKα/β
0.01 0.41 0.49 0.01 0.27 0.27
p-IκBα
0.01 0.44 0.51 0.01 0.25 0.22
p-p65
0.01 0.47 0.49 0.01 0.32 0.25
p-TBK1
0.01 0.25 0.23 0.01 0.15 0.11
β-actin
iGb3
DMSO
Med Poly(I:C) CpG Med Poly(I:C) CpG
p-IRF3
0.01 0.49 0.35 0.01 0.31 0.22
β-actin
e
iGb3
DMSO
0 30 60 0 30 60 (min)
p-ERK
p-JNK
p-p38
p-p65
0.03 0.21 0.19 0.01 0.02 0.03
β-actin

Supplementary information, Fig. S7 CD1d reverse signaling promotes the activation of TLR signaling in macrophages. **a** Immunoblot analysis of phosphorylated (p-) signaling molecules in lysates of *Cd1d*$^{+/+}$ and *Cd1d*$^{-/-}$ macrophages stimulated with LPS for the indicated times. **b** Immunoblot analysis of phosphorylated (p-) ERK, JNK, p38, IKKα/β, IκBα, p65 and TBK1 in lysates of *Cd1d*$^{+/+}$ and *Cd1d*$^{-/-}$ macrophages stimulated with Poly(I:C) or CpG ODN for 30 min, or phosphorylated IRF3 in lysates of *Cd1d*$^{+/+}$ and *Cd1d*$^{-/-}$ macrophages stimulated with Poly(I:C) or CpG ODN for 60 min. **c** Immunoblot analysis of phosphorylated signaling molecules in lysates of macrophages pretreated with iGb3 and then stimulated with LPS for the indicated times. **d** Immunoblot analysis of phosphorylated (p-) ERK, JNK, p38, IKKα/β, IκBα, p65 and TBK1 in lysates of macrophages pretreated with iGb3 and then stimulated with Poly(I:C) or CpG ODN for 30 min, or phosphorylated IRF3 in lysates of macrophages pretreated with iGb3 and then stimulated with Poly(I:C) or CpG ODN for 60 min. **e** Immunoblot analysis of phosphorylated (p-) ERK, JNK, p38 and p65 in lysates of macrophages stimulated with iGb3 for the indicated times. Data are representative of three independent experiments.