

Human Antibacterial Response PCR Array
Toll-like Receptor (TLR) Signaling:
<u>Receptors & Cofactors:</u> CD14, LY96 (MD-2), TLR1, TLR2, TLR4, TLR5, TLR6, TLR9.
<u>MYD88-Dependent:</u> FADD, IRAK1, IRAK3, IRF5, IRF7, MAP3K7 (TAK1), MYD88, TIRAP, TLR1, TLR2, TLR4, TLR5, TLR6, TLR9, TOLLIP, TRAF6.
<u>TICAM1 (TRIF) Dependent (MYD88-Independent):</u> IRF5, IRF7, MAP3K7 (TAK1), RIPK1, TICAM1 (TRIF), TICAM2 (TRAM), TLR4, TRAF6.
<u>Other:</u> AKT1, CASP8 (FLICE), LBP, PIK3CA (p110a), RAC1.
NOD-like Receptor (NLR) Signaling:
<u>Receptors:</u> NAIP (BIRC1), NLRC4 (IPAF), NLRP1, NLRP3, NOD1 (CARD4), NOD2.
<u>Inflammasomes:</u> CASP1 (ICE), NAIP (BIRC1), NLRC4 (IPAF), NLRP1, NLRP3, PYCARD (TMS1/ASC).
<u>Regulation:</u> BIRC3 (c-IAP1), CARD6, CARD9, CASP8 (FLICE), HSP90AA1, MEFV, PSTPIP1, RIPK2, SUGT1, TNF, XIAP.
Other Bacterial Pattern Recognition Receptors (PRRs): APCS, CRP, DMBT1, ZBP1.
Downstream Signal Transduction:
<u>NF?B Pathway:</u> CHUK (IKKa), IKBKB, NFKB1, NFKBIA (IkbBa/MAD3), RELA, TNFRSF1A.
<u>ERK Pathway:</u> JUN, MAP2K1 (MEK1), MAPK1 (ERK2), MAPK3 (ERK1).
<u>p38/JNK Pathway:</u> JUN, MAP2K3 (MEK3), MAP2K4 (JNKK1), MAPK14 (p38 MAPK), MAPK8 (JNK1).
Apoptosis: AKT1, BIRC3 (c-IAP1), CARD6, CARD9, CASP1 (ICE), CASP8 (FLICE), CD14, FADD, IFNB1, IKBKB, IL12A, IL12B, IL1B, IL6, IRAK1, JUN, MAP3K7 (TAK1), MAPK1 (ERK2), MAPK8 (JNK1), MPO, NFKB1, NFKBIA (IkbBa/MAD3), PIK3CA, PYCARD, RAC1, RIPK1, RIPK2, TNF, TNFRSF1A, TRAF6.
Inflammatory Response: AKT1, APCS, CCL3 (MIP-1A), CCL5 (RANTES), CD14, CRP, CXCL1, CXCL2, IL1B, IL6, IL8, LBP, LY96 (MD-2), LYZ, MEFV, MYD88, NFKB1, NLRC4, NLRP3, NOD1 (CARD4), RAC1, RELA, RIPK2, SLC11A1, TICAM2 (TRAM), TIRAP, TLR1, TLR2, TLR4, TLR5, TLR6, TLR9, TNF, TNFRSF1A.
Cytokines & Chemokines: CCL3 (MIP-1A), CCL5 (RANTES), CXCL1, CXCL2, IFNA1, IFNB1, IL12A, IL12B, IL18, IL1B, IL6, IL8.

Antimicrobial Peptides: BPI, CAMP, CTSG, LCN2 (NGAL), LTF, LYZ, MPO, PRTN3, SLPI.