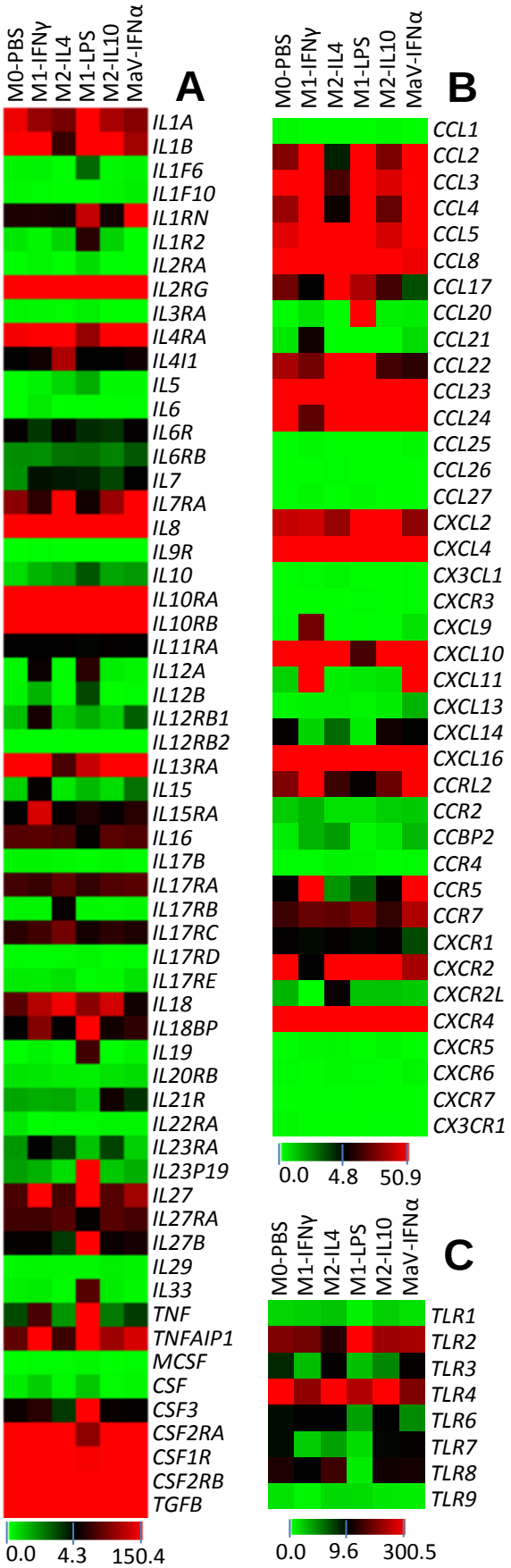

Figure S1. Family-wide transcriptomic analysis of porcine cytokines/chemokines and their receptor-related genes. Using PRRSV-infected macrophages at different activation statuses, the expression of most cytokines/chemokines, and their receptors at the transcriptomic level was revealed. In addition to inflammatory cytokines analyzed, including IL-1β, IL-6, IL-8, and IL-12, multiple status-specific identifiers could be novel signature genes. (A) Differential expression of cytokines and their receptor-related genes. (B) Differential expression of chemokines and their receptor-related genes. (C) Differential expression of porcine Toll-like receptors genes (TLRs), which act as major innate immune receptors in regulation of cytokine/chemokine production corresponding to different activation statuses in monocytic cells. Transcripts in heatmaps were labeled with the official gene symbols from http://www.ncbi.nlm.nih.gov/gene. The color scale under each heatmap illustrates the midpoint and range of RPKM values of listed transcripts.

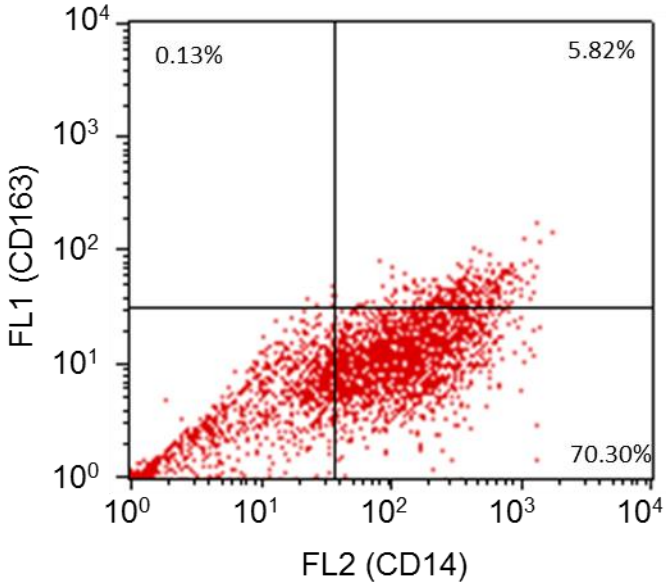

Figure S2. Two-color immunofluorescence facilitated flow cytometric analysis of purified monocytes with mAbs to CD14 and CD163. Monocytes used in this study are predominant $CD14^{+}$ $CD163^{low}$ (>90%) and few $CD14^{+}CD163^{high}$ (5.8%).

Supplemental Table S1: PCR primers used for RT-PCR assay of porcine GBPs and PRRSV detection

Gene	Primer sequence (5′-3′)	Product size (bp)	GenBank RefSeq RNA Accession
GBP1	Forward: CTGAGTCCGGCACGAGTTTG Reverse: CACCAGTAAGCATCGCGCAT	167	NM_001128473.1
GBP2	Forward: ACAGGGATTCAAGAAGGAGA Reverse: TAGTTGAGTGGCAATGGTTT	191	NM_001128474.1
GBP4	Forward: AGGAAACGATGCTGGAGCACAA Reverse: ATGCAATGCTAGCCACGTCAAG	177	XM_001927929.3
GBP5	Forward: TATGACCAGCTGATGGGCCAGAAT Reverse: TCTGTTTGGCTTCTAGCAGGGTCT	175	XM_003125920.3
GBP6	Forward: TGCTGCAGAATGAAGAGGCA Reverse: TTTCCTGGGCACTTGGCAAT	173	XM_003355299.1
GBP1L	Forward: ACCAGCTGACAGAGAAGCTGGAAA Reverse: TCTCTGCATTCATCTCCTGGGACT	174	XM_003481515.1
GBP2L	Forward: CAGAAACAACTCCTTGAGGAGGGA Reverse: GGCGATGGTTTGGCATCTTGAAGT	199	XM_003125922.3
GBPhp	Forward: GCTCAGTATGTGTGGGGCTT Reverse: TGATACGGTGAGTTCTGACACA	167	XM_003125925.1
PRRSV-N	Forward: ATGGCCAGCCAGTCAATCA Reverse: ACGGTCGCCCTAATTGAATAGGTG	436	AF494042
GAPDH	Forward: TGGYATCGTGGAAGGRCTCAT Reverse: RTGGGWGTYGCTGTTGAAGTC	370	NM_001206359.1