

Supplementary Information for

Coinfection of porcine circovirus 2 and pseudorabies virus enhances immunosuppression and inflammation through NF-κB, JAK/STAT, MAPK, and NLRP3 pathways

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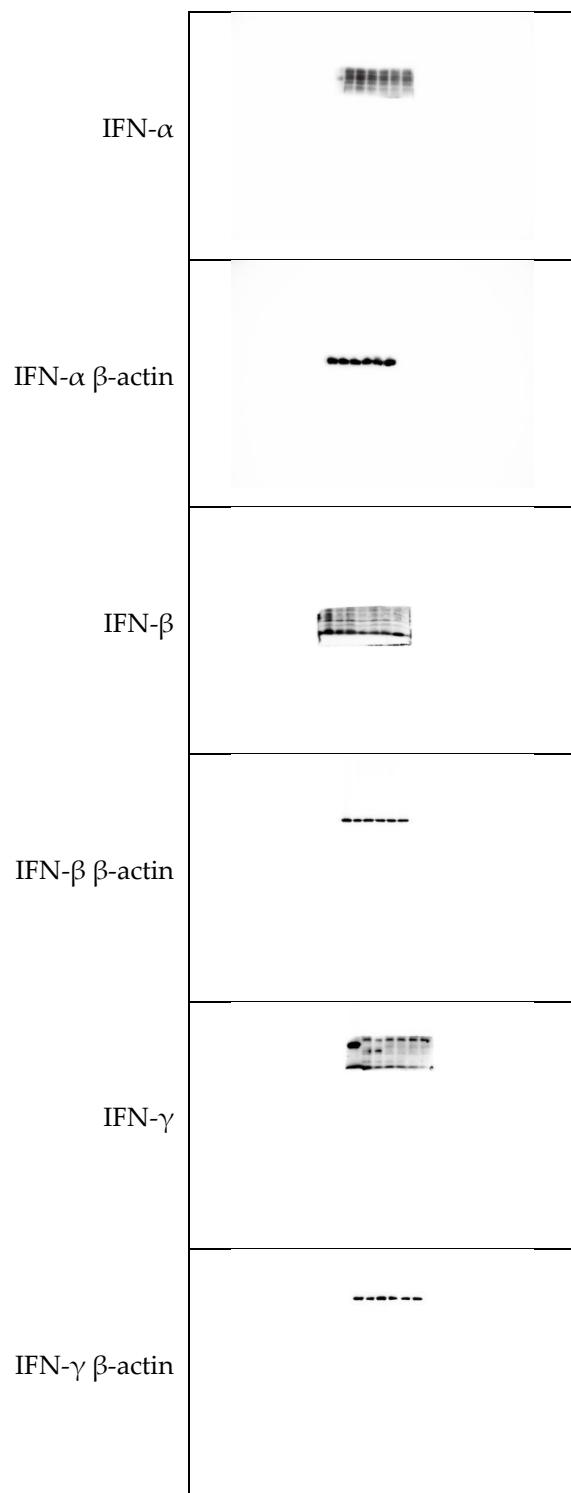
This PDF file includes:

Figures S1 to S7

Tables S1

SI References

Supplemental figures



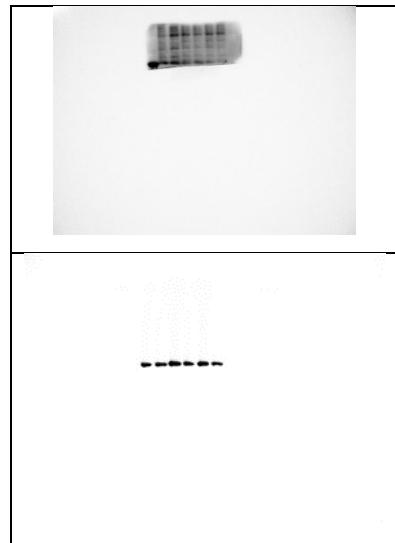


Figure S1: Original Western images used for preparing Figure 2.

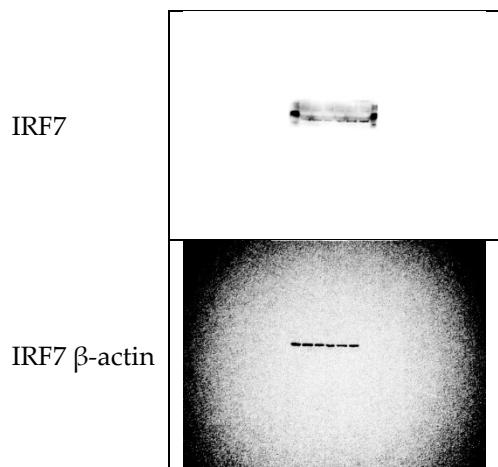


Figure S2: Original Western images used for preparing Figure 3C.

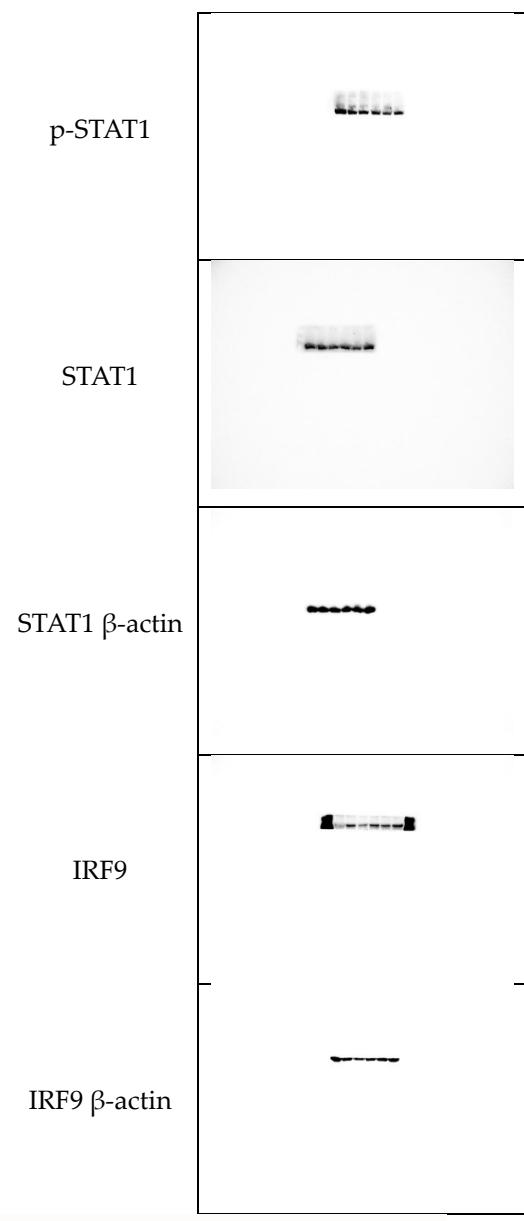


Figure S3 Original Western images used for preparing Figure 4E.

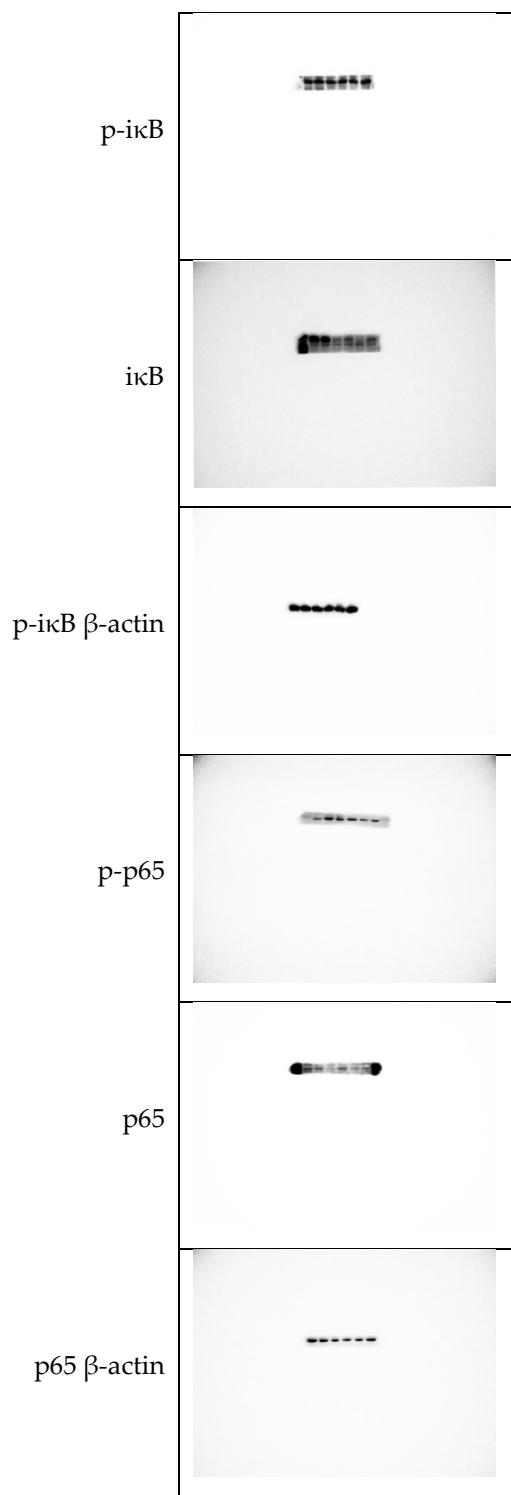
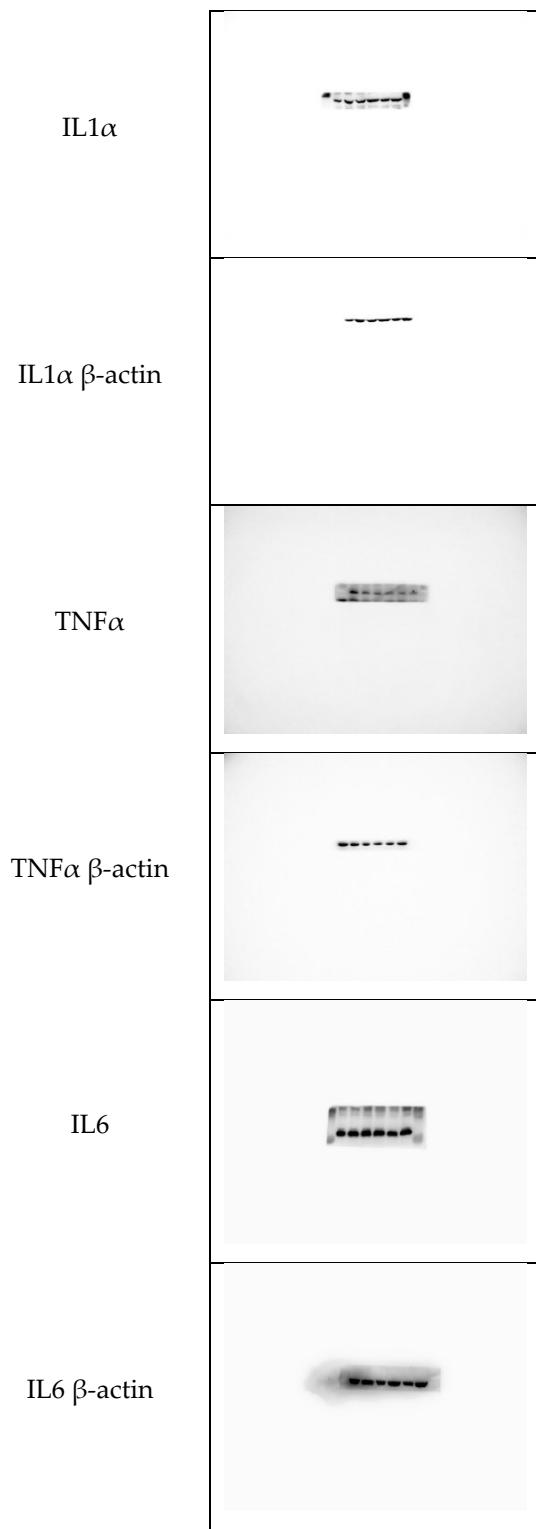


Figure S4 Original Western images used for preparing Figure 5C.



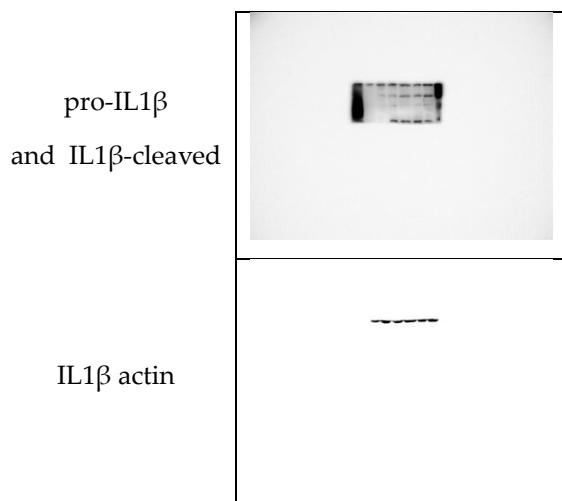


Figure S5 Original Western images used for preparing Figure 6E.

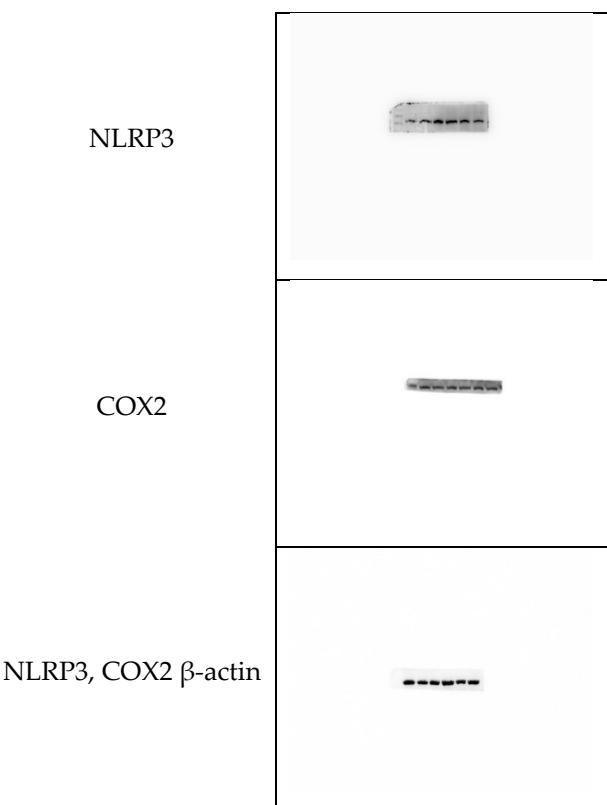
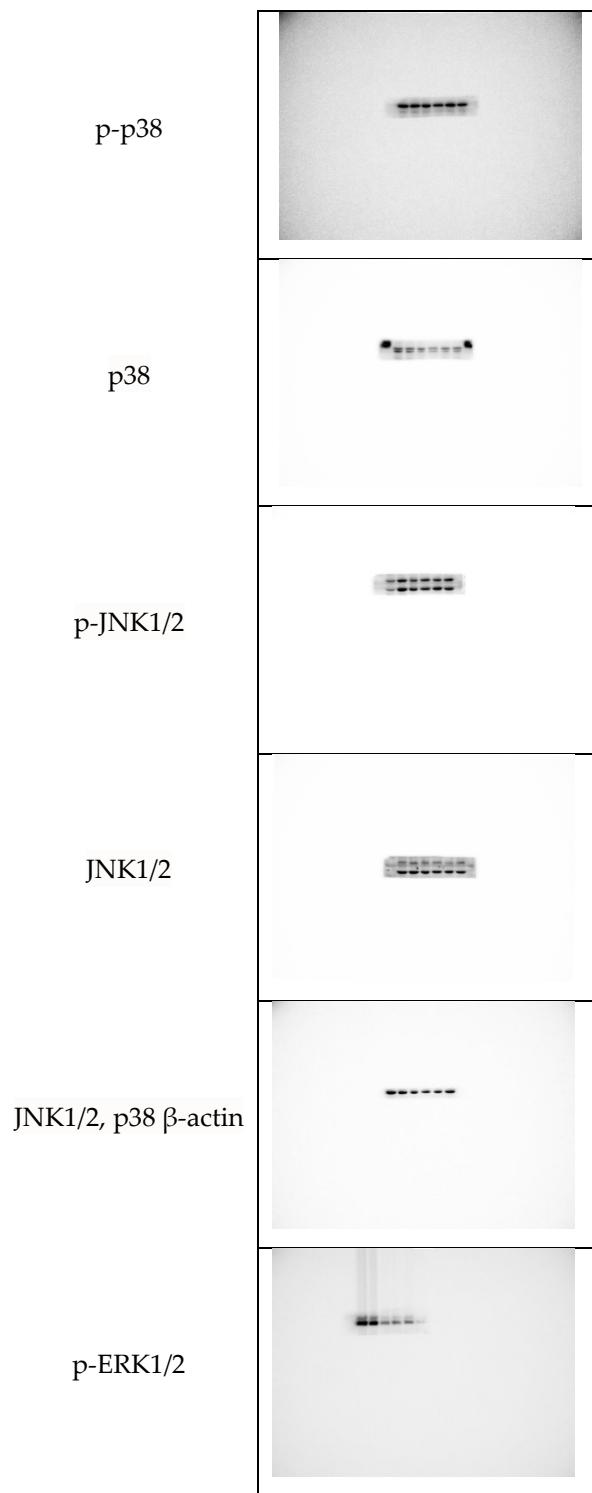


Figure S6 Original Western images used for preparing Figure 7C.



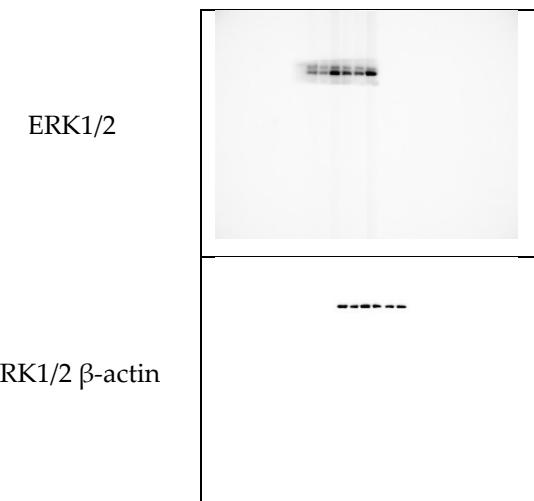


Figure S7 Original Western images used for preparing Figure 8D.

Supplemental Tables

Table S1 Sequence of primers

Primer	Sequence (5'-3')	GenBank No.	Reference
PCV2 Cap-Q-F	TGTAGTATTCAAAGGGCACAGAGC	NC_005148 (1,034..1,735)	(1)
PCV2 Cap-Q-R	CGGATATACTATCAAGAAAACAC		
PRV gD-Q-F	GTTCAACGAGGGCCAGTACCG	NC_006151 (121,075..122,277)	(2)
PRV gD-Q-R	GCGTCAGGAATCGCATCACGT		
GAPDH-F	GCCATACCACATCTTCAGG		
GAPDH-R	TCACGCCCATCACAAACAT	NM_001206359	(1)
Pig ISG15-F	GGCAATGTGCTTCAGGATGG		
Pig ISG15-R	CAGACCTCATAGGCCTTGCT	NM_001128469	This study
Pig ISG56-F	GCCTCTCCTTTAGCCACAGA		
Pig ISG56-R	GCCCATGTTGCTTATGTCC	NM_001244363	This study
Pig IL-1A-F	TGGGAGGACCAGGGTTACTG		
Pig IL-1A-R	GGTCATCAGCAACTAAAGGCA	NM_214029	This study
Pig TNF α -F	AACCTCAGATAAGCCCCGTCG	NM_214022	
Pig TNF α -R	GGCATACCACTCTGCCATT		
Pig IL-6-F	ATCCAGACCCCTGAGGCAAAA	NM_214399	This study
Pig IL-6-R	AGGTGCCCTAGCTACATTAT		
Pig IL1 β -F	ACCCCTCTCCAGCCAGTCTTCATT	NM_214055	This study
Pig IL1 β -R	TTGCAGCTGGATGCTCCCATT		
Pig IRF3-F	CCCACCTGGAAGAGGAATT		
Pig IRF3-R	CTCCCTGAGGTACAAACTCATAG	NM_213770	This study
Pig IRF7-F	AGCCCTCTACCCCCATCTGT		
Pig IRF7-R	AGCCAGTCTCCGAAGAGCAC	NM_001097428	This study
Pig IRF9-F	GGAACTGGGTGGTGGAGCAA		
Pig IRF9-R	CTCTTGTGAGGGCACAGCG	NM_001078670	This study
Pig RELA/p65-F	TGGTGGGAAAACACGGAGAG		
Pig RELA/p65-R	ATGCCTCTGTCAATTCTGCT	NM_001114281	This study
Pig I κ B α -F	CCTGGTGTGCTTGTGA		
Pig I κ B α -R	GCTGCTGTATCCGAGTGCTT	NM_001005150	This study
Pig Jak1-F	CCAGGCAAGAGTCATAGAA		
Pig Jak1-R	GTGGTTCCAAGCTCCATTG	NM_214114	This study
Pig SOCS1-F	TCAGTGTGAAGATGGCTTCGG		
Pig SOCS1-R	AGCTCGAACAGGCAGTCGA	NM_001204768	This study
Pig SOCS3-F	ATCCCTCTGGTGTGAGCCG		
Pig SOCS3-R	AGTGGGGCATCGTACTGGTC	NM_001123196	This study
Pig STAT1-F	CCCTGACGGTCTTATTCC		
Pig STAT1-R	ATAGTCGTTCTCGCTCT	NM_213769	This study
Pig STAT3-F	TTCAAACACCTGACCCCTG		
Pig STAT3-R	TCAGCACCAAGTAGAGGTTG	NM_001044580	This study
Pig p38/MAPK14-F	GAAAGCAGGGACCTCCTTATAG		
Pig p38/MAPK14-R	CGGATTCTCAAGACTCCATCTC	XM_003356615	This study
Pig ERK2-F	ACCTCAGCAACGACCATA		
Pig ERK2-R	AGACACTGAAACCCAACC	NM_001198922	This study
Pig JNK1-F	AGTTGGATGAAAGGGAACACACA		
Pig JNK1-R	ACTGCTCACCTGTGCTAAA	XM_021073087	This study
Pig NLRP3-F	ACCTGCAAAACACTGGGTTGG		
Pig NLRP3-R	TCACCCAGGTCAATTGTTGCCT	NM_001256770	This study
Pig COX2/PTGS2-F	GAGGTCTTGGTCTGGTGCCT		
Pig COX2/PTGS2-R	CAGCCGTTCATCGTCCCCATT	NM_214321	This study

Reference

1. H. G. Shen *et al.*, Protective immunity against porcine circovirus 2 by vaccination with ORF2-based DNA and subunit vaccines in mice. *J Gen Virol* **89**, 1857-1865 (2008).
2. Z. Peng *et al.*, Pseudorabies virus can escape from CRISPR-Cas9-mediated inhibition. *Virus Res* **223**, 197-205 (2016).