

Whole life piglet protection

CIRCOVAC[®]



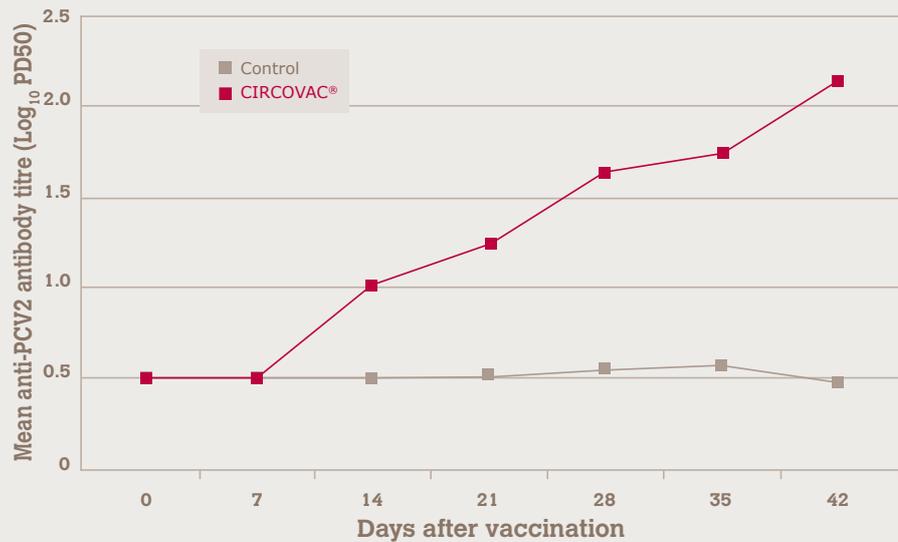
CIRCOVAC® PROVIDES STRONG & WIDE PROTECTION thanks to whole virus PCV2 antigen

Whole virus antigen provides expression of both ORF1 & ORF2 epitopes^{1,2}

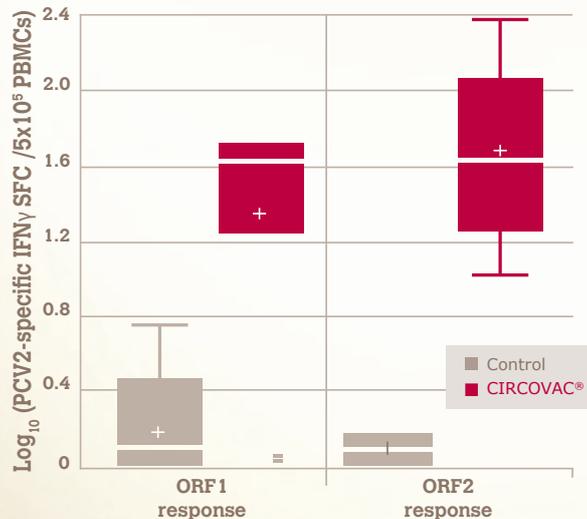
Induction of strong, broad and long-lasting immunity^{1,3}

Protection against both PCV2a & PCV2b genotypes^{4,5}

CIRCOVAC® RAPIDLY INCREASES ANTI-PCV2 SERONEUTRALIZING ANTIBODY TITRES³



CIRCOVAC® INDUCES A STRONG CMI RESPONSE AGAINST BOTH ORF1 & ORF2 PROTEINS¹

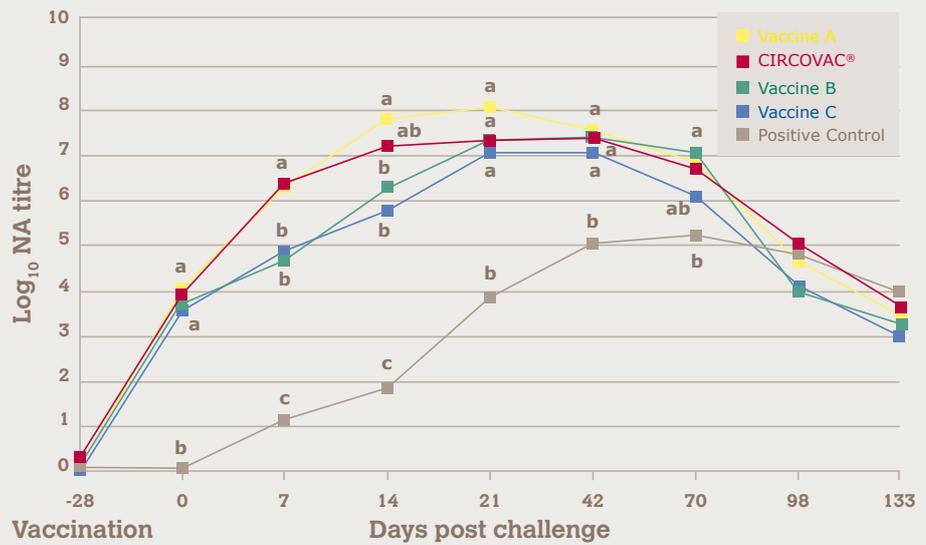


CIRCOVAC® INDUCES HIGHER IMMUNE RESPONSE vs subunit vaccines



CIRCOVAC® induces a higher immune response vs. subunit vaccines (B and C)^{4,5}

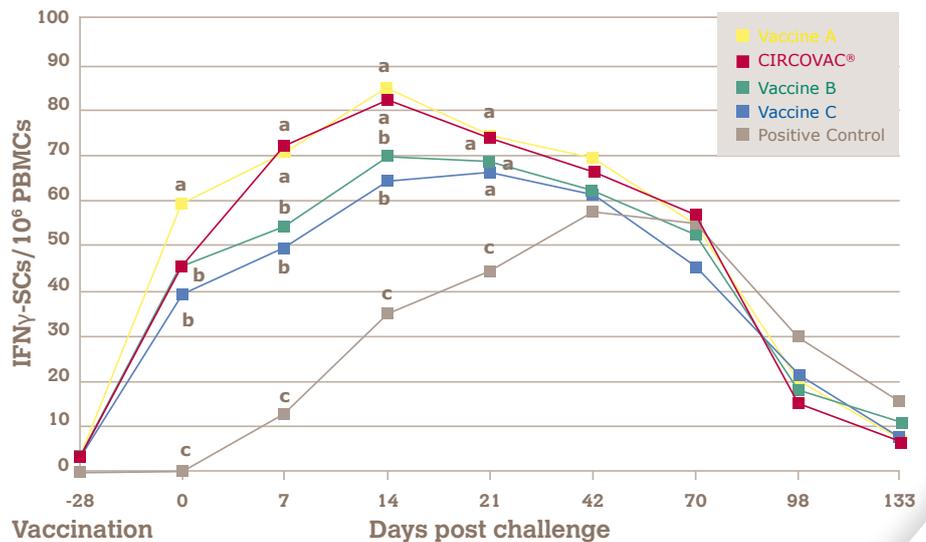
HIGHER PCV2-SPECIFIC NEUTRALIZING ANTIBODY TITRES VS. SUBUNIT VACCINES⁴



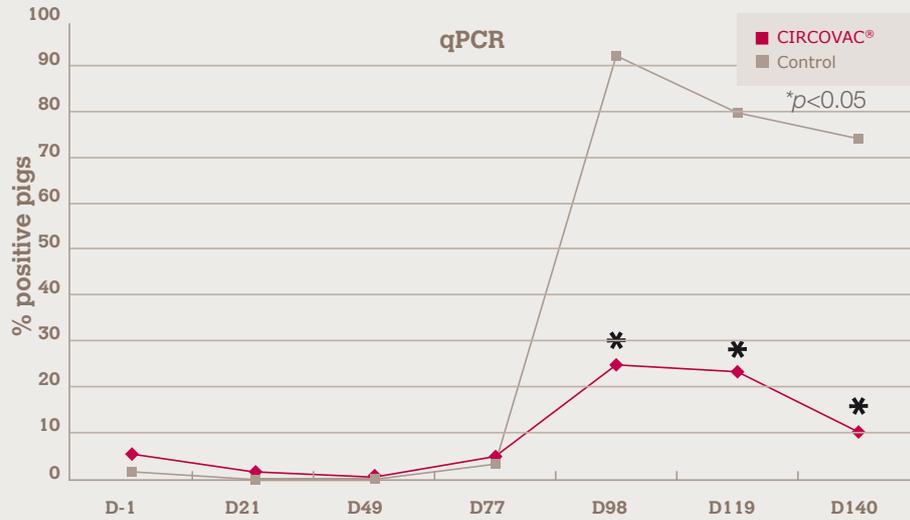
HIGHER IFN γ -SECRETING CELLS VS. SUBUNIT VACCINES⁴

PCV2 viraemia was more reduced vs. subunit vaccines (B and C)^{4,5}

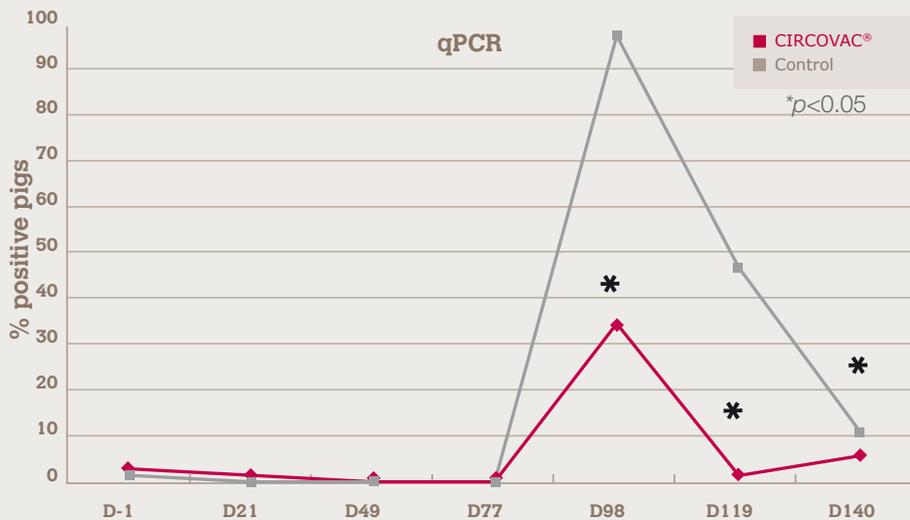
No IgG was detected in negative controls



By decreasing PCV2 viraemia⁶



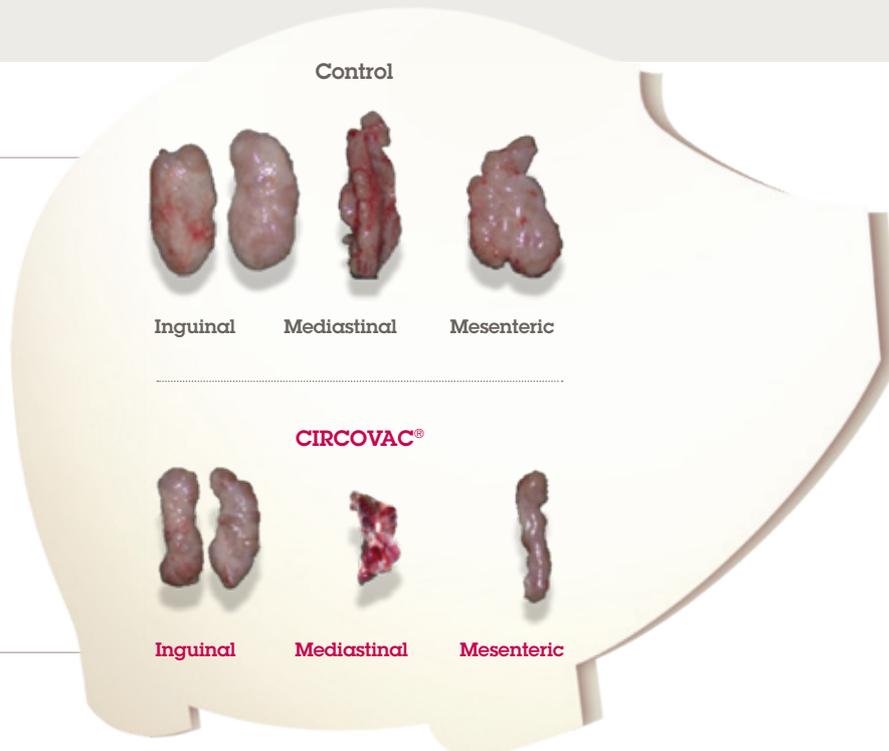
By decreasing PCV2 fecal shedding⁶



Piglets were vaccinated on D0 between 17 and 26 days of age

By controlling lymphoid lesions⁷

15 SPF piglets vaccinated at **21** days of age,
15 piglets non-vaccinated
 Challenge at **5** weeks of age and euthanasia **29** days after challenge
 Weight measurement of lymph nodes

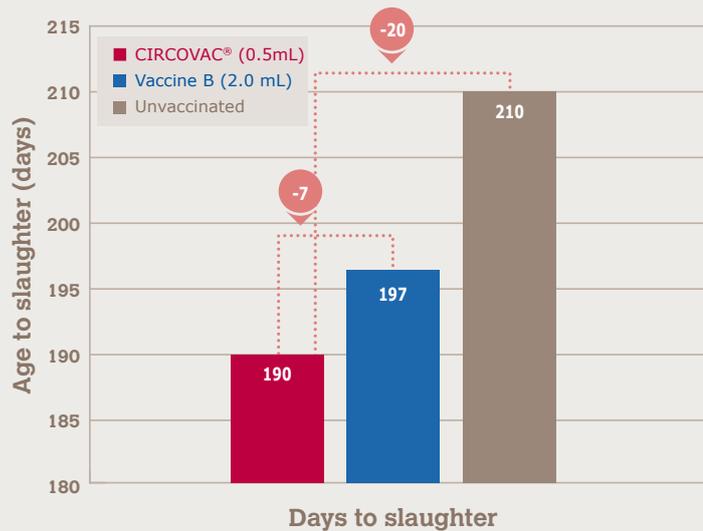




CIRCOVAC® DECREASES TIME TO SLAUGHTER¹¹

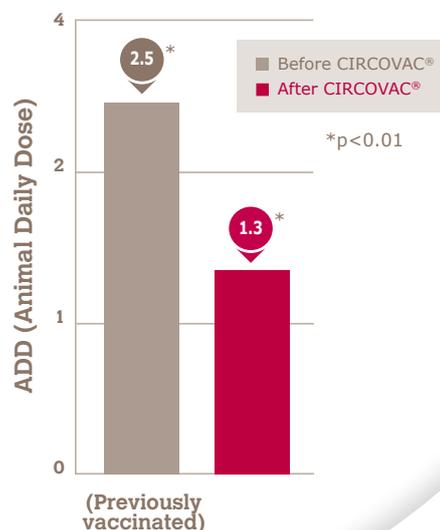
Vs. non-vaccination or competitor vaccine¹¹

● Piglets vaccinated at 3 weeks of age



CIRCOVAC® SIGNIFICANTLY REDUCES AVERAGE ANTIMICROBIAL USE¹²

Reduction is observed in farms that switched from other PCV2 vaccines to CIRCOVAC®



CIRCOVAC[®]



CIRCOVAC[®] IMPROVES FERTILITY and lowers abortion rate

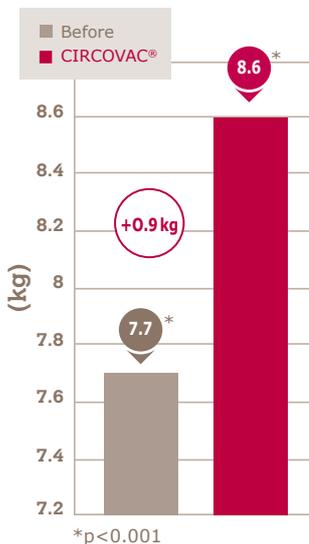
REPRODUCTIVE PARAMETERS AFTER CIRCOVAC[®] VACCINATION¹³

	Non-vaccinated gilts	CIRC <small>OVAC</small> [®] vaccinated gilts
Number of gilts	165	165
% return to estrus	5.1%	1.8%
% abortion (N)	7.3% (12)	3.6% (6)
% farrowing	83.9%	90.5%
Mummies/litter	0.3	0.3
Stillborn/litter	0.8	0.8
Weaning to fecundation interval	8.7 days	5.5 days

Weaning weight improved after vaccinating sows with CIRCOVAC[®]

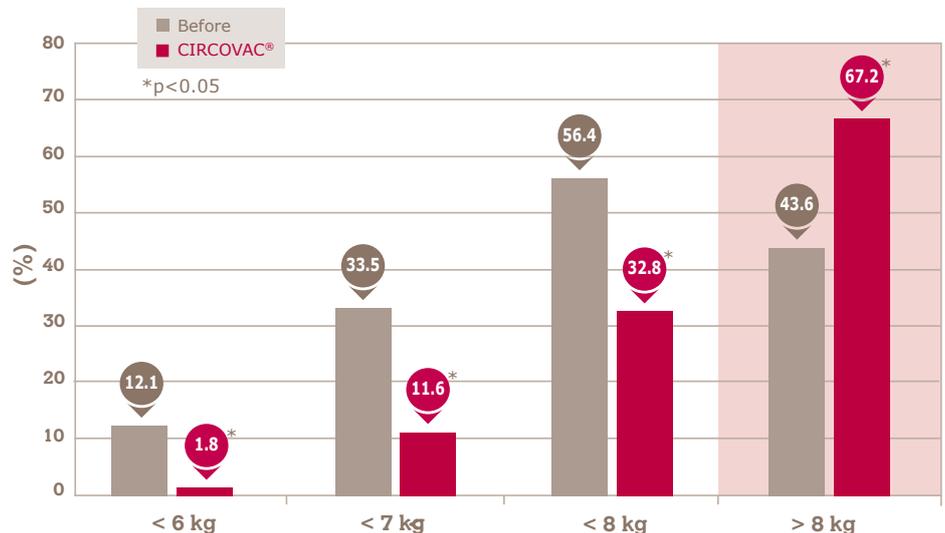
- 1 270 sow unit
- 1 962 piglets
 - 1 007 control piglets
 - 955 piglets born from vaccinated sows

IMPROVEMENT OF WEANING WEIGHT¹⁴



Less “small” piglets at weaning

DISTRIBUTION OF PIGLETS PER WEANING WEIGHT¹⁴





Global Herd Protection

- Strong and safe protection with inactivated whole virus
- Active immunisation of Piglets, Gilts and Sows
- Passive protection of suckling Piglets

References 1. Joisel F, *et al.* Merial Corporate Symposium. APVS 2009. Tsukuba, Japan. p5-13. 2. Goubier A, *et al.* IPVS 2008. Durban, South Africa. p40. 3. Chevalier M, *et al.* IPVS 2010. Vancouver, Canada. p 439. 4. Seo HW, *et al.* Vet J 2014;200:65-70. 5. Park C, *et al.* Clin Vaccine Immunol 2014;21:399-406. 6. Fraile L, *et al.*, Vaccine 30, 2012, P 1986-1992. 7. Chevalier M, *et al.* Proceedings of 22nd IPVS Congress, Jeju, Korea, 2012, vol 2, p 888. 8. Pejsak Z, *et al.* Comparative Immunology, Microbiology and Infectious Diseases, 2010, 33: e1-e5. 9. Segalés J. Virus Research, 2012, 164: 10-19. 10. Gillespie TG. 48th annual Georges Young Swine Health and Management Conference, University of Nebraska-Lincoln, 2007, p 1-6. 11. Pedchenko V, *et al.* ESPHM 2014. Sorrento, Italy. P89, p177. 12. Soegaard R, *et al.* IPVS 2014. Cancun, Mexico. P352, vol 2, p343. 13. Noirrit *et al.*, 21st IPVS, Vancouver, Canada, p. 436. 14. Brons *et al.*, 2010, 21st IPVS, Vancouver, Canada, p. 374.

DOSAGE FOR EACH SPECIES, ROUTE(S) AND METHOD OF ADMINISTRATION Reconstitute immediately after removal from the refrigerator (or other cold storage). **Gilts and sows:** Administer one 2 ml dose by deep intramuscular injection in accordance with the following vaccination scheme: Basic vaccination: Gilts: One injection, followed 3 to 4 weeks later by a second injection, at least 2 weeks before mating. One further injection must be given, at least 2 weeks before farrowing. Sows: One injection, followed 3 to 4 weeks later by a second injection, at least 2 weeks before farrowing. Revaccination: One injection at each gestation, at least 2 to 4 weeks before farrowing. Piglets from 3 weeks of age: Administer one 0.5 ml dose by intramuscular injection. **ADVICE ON CORRECT ADMINISTRATION** To use the vaccine, shake vigorously the vial of antigen suspension and inject its content into the vial of emulsion containing adjuvant. Gently mix before use. The reconstituted vaccine is a homogeneous white emulsion. **WITHDRAWAL PERIOD** Zero days. **SPECIAL STORAGE PRECAUTIONS** Keep out of the reach and sight of children. Store and transport refrigerated (2 °C-8 °C). Store in the original package in order to protect from light.

For more details, see the SPC applicable in your country.

This page contains information on a veterinary biological product sold in several different countries and areas where it may be subject to different regulatory approvals. Ceva gives no guarantee that the details presented are correct with respect to all locations. In addition, the safety and efficacy data and the withholding periods may be different depending on local regulations. Please consult your veterinarian for further information.

