



## Rabbit Anti-PCV2 capsid protein antibody

SL10057R

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| <b>Product Name:</b>          | PCV2 capsid protein   |
| <b>Chinese Name:</b>          | 猪圆环病毒 II 型衣壳蛋白抗体  |
| <b>Alias:</b>                 | ORF1; ORF2 (PCV-2; PCV 2; Porcine circovirus2; Porcine circovirus-2.)   |
| <b>Organism Species:</b>      | Rabbit  |
| <b>Clonality:</b>             | Polyclonal  |
| <b>React Species:</b>         | PCV2  |
| <b>Applications:</b>          | ELISA=1:500-1000<br>not yet tested in other applications.<br>optimal dilutions/concentrations should be determined by the end user.   |
| <b>Molecular weight:</b>      | 28kDa   |
| <b>Cellular localization:</b> | The nucleus   |
| <b>Form:</b>                  | Lyophilized or Liquid   |
| <b>Concentration:</b>         | 1mg/ml  |
| <b>immunogen:</b>             | KLH conjugated synthetic peptide derived from PCV2 capsid protein:133-233/233   |
| <b>Lsotype:</b>               | IgG   |
| <b>Purification:</b>          | affinity purified by Protein A  |
| <b>Storage Buffer:</b>        | 0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.  |
| <b>Storage:</b>               | Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.   |
| <b>PubMed:</b>                | <a href="#">PubMed</a>  |
| <b>Product Detail:</b>        | There has been much uncertainty in the relationship between PCV2 and PMWS but Bolin et al demonstrated that Koch's postulates could be fulfilled by inoculating cesarean-derived, colostrum-deprived (CDCD) pigs with PCV2 and producing clinical signs of PMWS. Similar work has been performed using an infectious genomic clone of PCV2 in specific pathogen free (SPF) pigs to produce the gross and microscopic lymphoid lesions of PMWS. Although PCV2 has been shown to induce PMWS lesions in CDCD and SPF pigs, the presence of additional factors are required. |

**Function:**

Self-assembles to form the virion icosahedral capsid with a T=1 symmetry. This very small capsid (17 - 22 nm in diameter) allows the virus to be very stable in the environment and resistant to some disinfectants, including detergents. Essential for the initial attachment to heparan sulfate moieties and chondroitin sulfate B of the host cell surface proteoglycans. After attachment, the virus is internalized in a clathrin-, caveolae- and dynamin-independent, actin and Rho-GTPase-mediated pathway and traffics to the nucleus. The capsid protein binds and transports the viral genome and Rep across the nuclear envelope.

**Subunit:**

Homomultimer. Assembles in the nucleus, presumably in an immature form, then migrates to the cytoplasm once assembled as mature virion (Probable). Interacts with Rep; this interaction relocates Rep into the nucleus.

**Subcellular Location:**

Host nucleus. Virion (Potential).

**Similarity:**

Belongs to the circoviridae capsid protein family.

**SWISS:**

O56129

**Gene ID:**

2943185

**Database links:**

[Entrez Gene: 2943185](#) PCV2

[SwissProt: O56129](#) PCV2

**Important Note:**

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

猪圆环病毒-PCV-2是一种嗜单核-

巨噬细胞性的病毒,属于圆环病毒科圆环病毒属的成员,根据抗原性及基因组成,分为PCV1和PCV2两种,其中PCV2对猪具有致病性,PCV2(病毒囊膜衣壳蛋白(Cap))主要侵害免疫系统,导致感染猪免疫抑制,降低机体对其他病原体的抵抗力和疫苗的反应性,容易导致其他病毒和细菌的继发感染,使死亡率明显升高。