# Porcine Circovirus type 2 (PCV2) Antibody ELISA Test Kit
# Product code: E30051

**Application:**
This ELISA kit can be used to detect PCV2 specific antibody level in serum or plasma.

**Principle:**
The 96well microtiter plate was precoated with PCV2 antigen. During testing, samples are added into the microplate wells, in which the precoated antigen will capture the PCV2 antibody in sample and formed antigen-antibody complex. Uncombined components in wells are discarded by a washing step. Then HRP conjugated anti-porcine antibody is added into each well, which will be combined with the porcine antibody in wells. After another washing step to remove unreacted conjugate, substrate is added and a blue color will be developed if PCV2 antibody is present. The measured intensity is positively proportional to the amount of antibody present in the sample.

**Kit components:**

| Item No. | Description | Quantity |
|---|---|---|
| **1** | PCV2 microplate | 1 piece |
| **2** | Positive control | 1 X 1 ml |
| **3** | Negative control | 1 X 1 ml |
| **4** | Serum diluent | 1 X 20 ml |
| **5** | HRP enzyme conjugate | 1 X 12 ml |
| **6** | TMB substrate | 1 X 12 ml |
| **7** | Stop solution | 1 X 6 ml |
| **8** | 25X wash buffer | 1 X 15 ml |

**Storage and expiration:**
The kit shall be store at 2-8ºC, avoid direct sunlight.
The valid period is 12 months.

**Assay procedure:**
- Make sure the kit and all test samples are returned to room temperature before use. Shake each reagent gently before adding into the well.
- Take the microplate from the zip-bag, and mark the location of the sample.
- Add 100ul positive control into two wells (100ul/well).
- Add 100ul negative control into another two wells (100ul/well).
- Add 100ul diluted serum sample(40X) into above wells (100ul/well).
- Cover the plate with plate cover and incubate at room temperature (22-27 ºC) for 60min.
- Pour the liquid out from the wells and wash with wash buffer (300ul per well) for 5 times. Tap the residue liquid against absorbent paper to make sure the plate is dry after washing. Note: The condensed wash buffer should be dilute for 25 times with pure water.

- Add 100ul of HRP enzyme conjugate into each well. Cover the plate again and then incubate at room temperature again for 60min.
- Repeat the washing step again.
- Add the TMB substrate into each well, 100ul per well.
- Cover the plate again and then incubate at room temperature again for 10min.
- Add 100ul stop solution into each well to stop the reaction.
- Using ELISA reader to read the plate at 450nm.

**Result determination:**

- The experiment is effective when the OD of positive control is greater than 0.8 and the OD of negative control is less than 0.25.
- Positive: OD of sample >= (OD of negative control X 2)
- Negative: OD of sample < (OD of negative control X 2)

**Manufacturer Information**

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