

# CSFV Ab ELISA

## Classical Swine Fever virus antibody

Classical Swine Fever Virus (CSFV), previously called hog cholera virus, is a Pestivirus in the family Flaviviridae. The CSFV is closely related to the ruminant pestiviruses which cause Bovine Viral Diarrhea (BVDV) and Border Disease (BDV). The virulence of CSFV strains varies widely which is leading to a wide range of clinical signs. Highly virulent strains result in acute and severe clinical signs including neurological signs and hemorrhages and high mortality rate. Less virulent strains can give rise to sub-acute or chronic infections that may escape detection, while still causing abortions and stillbirth. Herds in high risk areas are usually serologically tested on a thorough statistical basis.



## Indications

- Routine monitoring of CSFV
- Diagnosis of CSFV by antibody titration
- Titer check after vaccination

## Special Features

- No cross reaction with other swine disease positive sera
- Blocking ELISA which is OIE reference method for CSFV
- Specimen: Plasma, Serum
- Reading time: 1 hour and 45 minutes
- Sensitivity: 99.3% vs. Commercial ELISA
- Specificity: 99.7 % vs. Commercial ELISA

### Correlation rates with other commercial ELISA

- Random 274 samples from vaccinated group

	'P' ELISA	'I' ELISA
AniGen	Different results	
CSFV Ab ELISA	17 samples	27 samples
Correlation rate	93.8%	90.0%

## Quick Procedure

1. Prepare CSFV antigen coated test plate
2. Add 50 $\mu$ l of the sample diluent into each well of the plate
3. Add 50 $\mu$ l of controls and samples to wells
4. Incubate plate for 60 minutes at 37°C
5. Wash plate 5 times
6. Add 100 $\mu$ l of enzyme conjugate(ready to use) into each well
7. Incubate the wells at 37°C for 30 minutes
8. Wash plate 5 times
9. Add 100 $\mu$ l of substrate(ready to use) to each well and incubate for 15 minutes at room temperature
10. Add 100 $\mu$ l of stopping solution
11. Measure the optical density (OD) at 450 nm with reference wavelength at 620nm
12. PI value =  $[1-(\text{mean OD sample}/\text{mean OD negative control})] \times 100$

## Ordering Information

Cat. No.	Description	Type	Packing size
EB4413PO	CSFV Ab ELISA	Microplate	480 Wells/Kit