



**AniGen CSFV Ab ELISA** is an Indirect Enzyme Linked Immunosorbent Assay for the qualitative detection of antibodies against classical swine fever virus in swine serum



The infectious agent responsible is a virus CSFV (previously called hog cholera virus) of the genus Pestivirus in the family Flaviviridae. CSFV is closely related to the ruminant pestiviruses which cause Bovine Viral Diarrhoea (BVDV) and Border Disease (BDV). The effect of different CSFV strains varies widely, leading to a wide range of clinical signs. Highly virulent strains correlate with acute, obvious disease and high mortality, including neurological signs and hemorrhages within the skin. Less virulent strains can give rise to subacute or chronic infections that may escape detection, while still causing abortions and stillbirths. In these cases herds in high risk areas are usually serologically tested on a thorough statistical basis. Infected piglets born to infected but subclinical sows help maintain the disease within a population. Other signs can include lethargy, fever, immunosuppression, chronic diarrhea and secondary respiratory infections.

- Principle: Indirect Enzyme Linked Immunosorbent Assay [Recombinant CSFV antigen (Capture)]-[CSFV antibodies in sample]-[Anti swine IgG-HRP detector]
- Purpose: Qualitative detection of antibodies against classical swine fever virus
- Species: Swine
- Specimen: Serum
- Reading time: 75 minutes
- Sensitivity: 99.3% (Vs Commercial ELISA)
- Specificity: 99.7 % (Vs Commercial ELISA)
- Shelf life: 12 months
- Storage temperature: 2~8°C
- Packing size: 96 Tests/kit, 480 Tests/kit, 960 Test/ kit

- No cross reaction with other swine disease positive sera.
- Simple test procedure
- High sensitivity and specificity
- Fast Test result: Within 2 hours

1. Prepare CSFV antigen coated test plate
2. Dilute test sample and control with sample diluents
3. Add 100ul of diluted sample and control to wells
4. Incubated plated for 30 minutes at room temperature.
5. Wash plate 5 times
6. Add 100ul of enzyme conjugate to wells
7. Wash plate 5 times
8. Add 100ul of substrate solution and incubated for 15 minutes at room temperature
9. Add 100ul of stop solution
10. Measure the optical density (OD) at 450 nm with reference wavelength at 620nm
11.  $S/P \text{ value} = \frac{[OD \text{ sample} - \text{mean OD negative}]}{[\text{mean OD positive} - \text{mean OD negative}] \times 100}$

ELISA

		Commercial ELISA		
		Positive	Negative	Total
AniGen CSFV Ab ELISA	Positive	156	0	156
	Negative	1	210	211
	Total	157	210	367

AniGen CSFV Ab ELISA has high Sensitivity 99.3% and high Specificity 99.7