

African Swine Fever Virus

Antibody Blocking ELISA Kit

Product Code: ZE013

Package Size: 96T*2, 96T*5



African swine fever (ASF) is a severe viral disease affecting domestic and wild pigs; More recently the disease has been reported in multiple countries across Africa, Asia and Europe, in both domestic and wild pigs. In 2018 and 2019, ASFV is spreading quickly to Asia, Southeast Asia. now ASFV are becoming big threat to local animal farming.

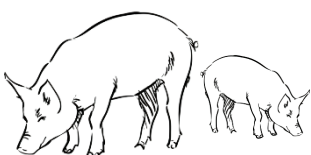
Principle of the kit

P30 is a 30-kDa phosphoprotein of ASFV that is synthesized, membrane localized, and released into the culture medium at early times after infection, thus it is regarded as marker for ASFV early infection.

In the kit, recombinant p30 protein is precoated on the microwell plate. HRP conjugated p30 specific monoclonal antibody and serum sample are added. The HRP-antibody and p30 specific serum antibody will compete for the protein coated. After washing the plate, free p30 antibody will be removed. Then chromogenic substrate is added and incubated to show the color signal which can be measured by an ELISA reader at 450nm.

Components of the kit

Product Code	ZE0132	ZE0135
Product Size	192T	480T
Microwell plate	2*96T	5*96T
Negative control	1 vial, 0.8 mL	1 vial, 2mL
Positive control	1 vial, 0.8 mL	1 vial, 2mL
HRP-p30 antibody	1 bottle, 24 mL	1 bottle, 55 mL
Sample buffer	1 bottle, 24 mL	1 bottle, 55 mL
20x wash buffer	1 bottle, 24 mL	1 bottle, 55 mL
Substrate	1 bottle, 24 mL	1 bottle, 55 mL
Stop solution	1 bottle, 24 mL	1 bottle, 55 mL





Technical Parameters *

Sensitivity	>95%
Specificity	>99%
Reproducibility	Inter-lot C.V. < 8%; intra-lot C.V < 3%
Total time cost	85min
Incubation	37°C -45min, 37°C -30min, 20-25°C 10min
Result determination	Positive: IN%>=50%, Negative: IN%<40 IN%: 40%~50%, suspicious, re-test and rejudge.
Shelf-life	12 months
Storage	2-8°C at cool dark place
Delivery	Room temperature

Note: please refer to the kit instruction manual for more details on the analysis.

Comparison with other commercial kits

Item	Ringbio Kit	ID ASFV Ab Kit	ING ASFV Ab KIT
Specificity	0/170	0/170	0/170
Sensitivity	53/55	56/58	45/58

Result:

From all 170 negative samples, all kits detect 0 positive, the specificity is 100%.

From all 58 positive samples, ING kit detects 13 negatives, ID and RINGBIO kits detect 2 negatives.

Thus the sensitivity of the ID & RINGBIO kits are the same, 96.55%, sensitivity of ING Kit is 77.58%.

Validation & Approval Information

- This kit has been approved by **Chinese Ministry of Agriculture and Rural Affairs** in Jan 2021.
- According to internal validation, this kit has identical performance with ID-VET ASFV Ab ELISA Kit.

