

Supporting Information

**Establishment and application of a gold nanoparticle-based
immunochromatographic test strip for the detection of avian leukosis
virus P27 antigen in egg white**

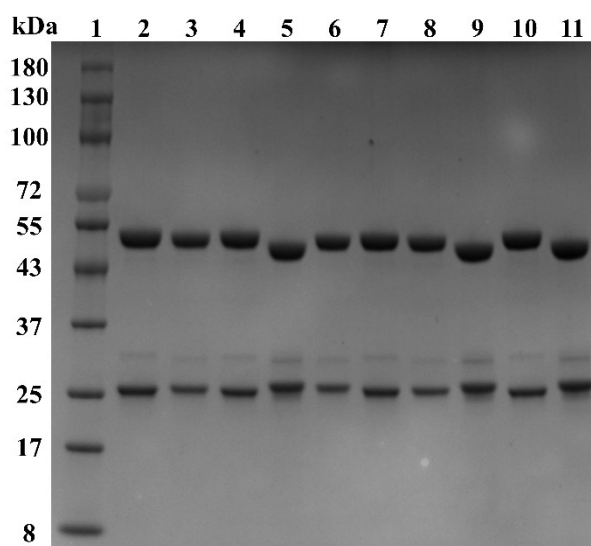


Fig. S1 SDS-PAGE identification of mAbs. Lane 1: protein marker, Lane 2-13: mAb 1B5, 3D5, 5B6, 6H12, 7G1, 8C2, 9B12, 10D5, 11D6 and 12B6.

Table S1. P/N value a of different concentrations of capture antibody and detection antibody in sandwich ELISA optimization.

		mAbs 3D5			
	Concentration	8 $\mu\text{g/mL}$	4 $\mu\text{g/mL}$	2 $\mu\text{g/mL}$	1 $\mu\text{g/mL}$
	4 $\mu\text{g/mL}$	6.03	4.99	3.95	2.51
HRP-	2 $\mu\text{g/mL}$	6.53	6.12	4.25	2.13
10D5	1 $\mu\text{g/mL}$	8.11	12.11	9.21	4.42
	0.5 $\mu\text{g/mL}$	5.11	8.11	5.12	3.15

P/N value was the ratio of OD_{450} value of the positive to the negative control.

Table S2. Stability of the AuNPs test strip stored at different temperatures for detecting P27.

Temperatures	15	30	45	60	75	90	105	120	135	150	165	180
4°C	++	++	++	++	++	++	++	++	++	++	++	++
25°C	++	++	++	++	±	±	±	±	±	±	±	±
37°C	++	+++	±	±	±	±	±	±	±	±	±	±

“±” stands for weak positives and “++” stands for strong positives.