

CERTIFICATE OF ANALYSIS

Important Note: Centrifuge before opening to ensure complete recovery of vial contents.

Catalog #: BN1070 **Lot #:** [Click or tap here](#)
to enter text.

Description: Monoclonal Antibody to Influenza A Nucleoprotein (NP)

Specificity: Influenza A Nucleoprotein (NP)

Host Animal: Mouse **Isotype:** IgG2a, Kappa

Source: HEK293

Format: Purified liquid

Immunogen: Recombinant Influenza A Nucleoprotein (NP)

Purification: >90% pure (SDS-PAGE), Protein G Chromatography

Concentration: 3.45 mg/ml (OD280nm, E^{0.1%} = 1.25)

Buffer: Phosphate Buffered Saline, pH 7.3

Preservative: 0.09% Sodium Azide

Applications: Suitable for use in Lateral Flow and ELISA. Each laboratory should determine an optimum working titer for use in its particular application. Other applications have not been tested but use in such assays should not necessarily be excluded.

Recommended pairs for sandwich immunoassay:

<u>Capture</u>	<u>Detection</u>
BN1069	BN1070

Storage: Long term storage at -20°C. Aliquot to avoid multiple freeze/thaw cycles.

Safety Note(s): Refer to the appropriate Safety Data Sheet (SDS) for additional information.

Quality Signature: 

Date

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

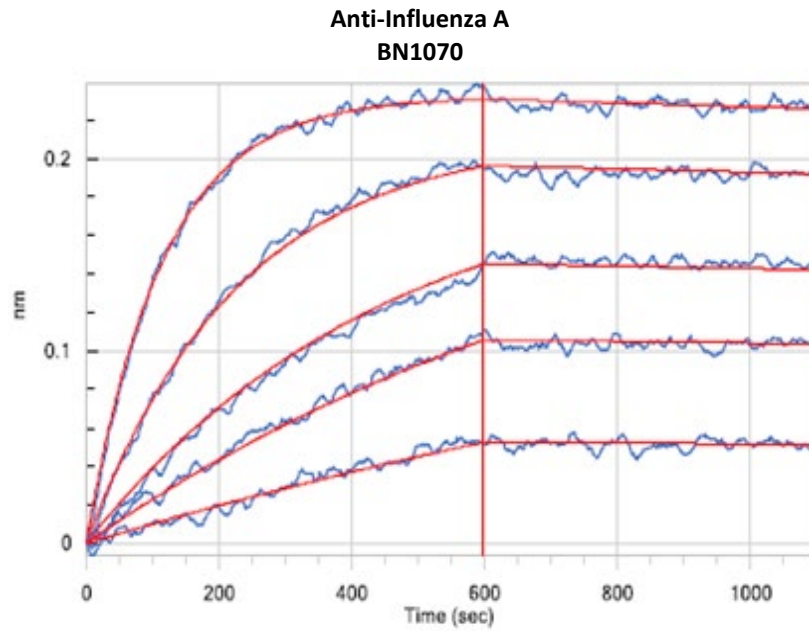


Figure 1. Binding kinetic analysis of the immobilized anti-Influenza antibodies to soluble Influenza A antigen (A and B) or Influenza B antigen (C, D, and E), measured by bio-layer interferometry. The concentrations of Influenza A/B analyzed are 12.5 ~ 0.78 nM with 2-fold dilution. The binding kinetics (k_{on} and k_{off}) and affinities (K_D), reported in Table 1, were obtained with $\chi^2 \leq 0.02$ and $R^2 \geq 0.99$.

Antibody	K_D (M)	k_{on} ($M^{-1}s^{-1}$)	k_{off} (s^{-1})	χ^2	R^2
Anti-Influenza A BN1069	2.60×10^{-11}	4.80×10^5	1.25×10^{-5}	0.0110	0.9992
Anti-Influenza A BN1070	6.10×10^{-11}	6.90×10^5	4.21×10^{-5}	0.0074	0.9979
Anti-Influenza B BN1224	$<1.00 \times 10^{-12}$	2.83×10^5	$<1.00 \times 10^{-5}$	0.0133	0.9993
Anti-Influenza B BN1222	$<1.00 \times 10^{-12}$	2.15×10^5	$<1.00 \times 10^{-5}$	0.0146	0.9996
Anti-Influenza B BN1223	2.23×10^{-11}	3.29×10^5	7.34×10^{-6}	0.0176	0.9992

Table 1. Binding kinetics of interactions between soluble Influenza A/B and immobilized anti-Influenza antibodies, as measured by bio-layer interferometry.