

Anti-Pan Influenza A Nucleoprotein Antibody (5E490)

Product Details

Ig Type:	Mouse IgG2a
Conjugation:	Unconjugated
Clone:	5E490
Purification:	Protein A

Applications

- Anti-NP mouse monoclonal antibody at 1:1000 dilution.
 - Sample: Recombinant Protein 10 ng
 - Lane 1: H1N1 (A/Brevig Mission/1/1918) NP
 - Lane 2: H1N1 (A/Brisbane/02/2018) NP
 - Lane 3: H1N1 (A/California/07/2009) NP
 - Lane 4: H1N1 (A/Guangdong-Maonan/SWL1536/2019) NP
 - Lane 5: H1N1 (A/Hawaii/70/2019) NP
 - Lane 6: H1N1 (A/Michigan/45/2015) NP
 - Lane 7: H1N1 (A/Puerto Rico/8/34/Mount Sinai) NP (I116M)
 - Lane 8: H1N1 (A/Victoria/2570/2019)/(A/Wisconsin/588/2019) NP
 - Lane 9: H2N2 (A/Ann Arbor/6/1960) NP
 - Lane 10: H3N2 (A/Aichi/2/1968) NP
 - Lane 11: H3N2 (A/Cambodia/e0826360/2020 (H3N2)-like NP
 - Lane 12: H3N2 (A/Hong Kong/1/1968) NP
 - Lane 13: H3N2 (A/Hong Kong/2671/2019) NP
 - Lane 14: H3N2 (A/Hong Kong/45/2019) NP
 - Lane 15: H3N2 (A/Hong Kong/4801/2014) NP
 - Lane 16: H3N2 (A/Kansas/14/2017) NP
 - Lane 17: H3N2 (A/Switzerland/9715293/2013) NP
 - Lane 18: H7N9 (A/Anhui/1-BALF_RG6/2013) NP
 - Lane 19: H7N9 (A/Shanghai/2/2013) NP
 - Lane 20: Influenza B (B/Brisbane/60/2008) NP
 - Lane 21: Influenza B (B/Colorado/06/2017) NP
 - Lane 22: Influenza B (B/Florida/4/2006) NP
 - Lane 23: Influenza B (B/Phuket/3073/2013) NP
 - Lane 24: Influenza B (B/Washington/02/2019) NP
 - Secondary
 - Goat Anti-Mouse IgG (H+L)/HRP at 1/10000 dilution.
 - Developed using the ECL technique.
 - Performed under reducing conditions.
- Anti-NP mouse monoclonal antibody at 1 µg/mL.
 - Sample: Recombinant Protein 10 ng
 - Lane A: H3N2 (A/Darwin/9/2021)/(A/Darwin/6/2021) NP Protein
 - Lane B: Influenza B (B/Austria/1359417/2021) NP Protein
 - Secondary
 - Goat Anti-Mouse IgG (H+L)/HRP at 1/10000 dilution
 - Developed using the ECL technique.
 - Performed under reducing conditions.

Verified Activity:

3. Anti-Pan Influenza A Nucleoprotein mouse monoclonal antibody in 1µg/mL.
- Sample: Recombinant Protein 10 ng
 - Lane 1: Influenza A H5N1 (A/Texas/37/2024) Nucleoprotein / NP Protein
 - Lane 2: Influenza A H1N1 (A/Brevig Mission/1/1918) Nucleoprotein / NP Protein
 - Lane 3: Influenza B (B/Phuket/3073/2013) Nucleoprotein / NP Protein
 - Secondary
 - Goat Anti-Mouse IgG (H+L)/HRP at 1/10000 dilution
 - Developed using the ECL technique.
 - Performed under reducing conditions.
4. Anti-Pan Influenza A Nucleoprotein mouse monoclonal antibody in 1ug/ml.
- Lane A: Influenza A H5N1 (A/Louisiana/12/2024) Nucleoprotein / NP Protein (10ng)
 - Secondary
 - Goat Anti-Mouse IgG (H+L)/HRP at 1/10000 dilution
 - Developed using the ECL technique.
 - Performed under reducing conditions.

Application: ELISA,ELISA(Cap),WB

Recommended WB: 0.2-1 µg/mL; ELISA: 0.5-1 µg/mL; ELISA(Cap): 0.5-4 µg/mL

Properties

Stability & Storage: Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles. Preservative-Free.

Shipping: Shipping with blue ice.

Antigen Details

Immunogen: Recombinant Protein: Influenza A H1N1 (A/California/07/2009) Nucleoprotein / NP Protein (TMPY-02876)

Antigen Species: H1N1

Research Background

Influenza viral nucleoprotein (NP) plays a critical role in virus replication and host adaptation. Nucleoprotein (NP) is an essential multifunctional protein that encapsidates the viral genome and functions as an adapter between the virus and the host cell machinery. NPs contain two nuclear localization signals (NLSs): a well-studied monopartite NLS1 and a less-characterized NLS2, thought to be bipartite. The nucleocapsid is a complex of the viral nucleoprotein, RNA, and several other viral proteins. The nucleoprotein forms large, RNA-bound, helical filaments and acts as a scaffold for additional viral proteins.

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