CATALOGUE #: **3IN5**

PRODUCT NAME: **Monoclonal anti-influenza virus type A (nucleoprotein)**

Recombinant MAbs:

FA32, FA35, FA38, FA58
Recombinant antibody expressed in a mammalian cell line. Full-size IgG sequence derived from rabbit B cells.

FA52
Recombinant chimeric antibody expressed in a mammalian cell line. Composed of original wild type variable domains of rat derived MAb and human IgG1 constant domains.

FA91, FA94
Recombinant chimeric antibody expressed in a mammalian cell line. Composed of original wild type variable domains of sheep derived MAb and human IgG1 constant domains.

MAbs *in vitro*:

FA17
Mouse monoclonal antibody produced in bioreactor. Hybridoma clone derived from hybridization of Sp2/0 myeloma cells with spleen cells of Balb/c mice.

MAbs *in vivo*:

F8, InA108, InA180, InA224, InA245
Mouse monoclonal antibody produced in ascites. Hybridoma clone derived from hybridization of Sp2/0 myeloma cells with spleen cells of Balb/c mice.

Immunogens:

Recombinant nucleoprotein of influenza virus type A strain H1N1 A/California/07/2009 for FA17, FA32, FA35, FA38, FA52, FA58, FA91, FA94

Purified influenza virus type A strain H1N1 for F8, InA108, InA180, InA224, InA245

Specificity:

Influenza virus type A (nucleoprotein). No cross-reactivity to NP of influenza B virus.

The following strains were tested with FA17, FA32, FA35, FA38, FA52, FA58, FA91, and FA94 and they all reacted with these strains:

A/California/07/2009(H1N1)	A/Texas/50/2012(H3N2)
A/Taiwan/1/1986(H1N1)	A/Brisbane/10/2007(H3N2)
A/Beijing/262/1995(H1N1)	A/Singapore/1/1957(H2N2)
A/New Caledonia/20/1999(H1N1)	A/Tern/South Africa/1961 H5N3)
A/Solomon Islands/03/2006(H1N1)	A/Mexico/InDRE7218/2012(H7N3)
A/Hong Kong/45/2019(H3N2)	A/chicken/Nakorn-Patom/Thailand/CU-K2/2004(H5N1)
A/Panama/2007/1999(H3N2)	A/chicken/HongKong/NT142/2003(H9N2)
A/Wisconsin/67/2005(H3N2)	A/Anhui/1/2013(H7N9)

Testing was carried out using corresponding recombinant nucleoproteins or lysates of purified viral preparations.

All antibodies are not cross-reactive to influenza B virus (<0.1%). Testing was carried out using lysates of purified viral preparations of influenza B/Colorado/06/2017.

FA17, FA32, FA35, FA38, FA52, FA58, FA91, FA94 were tested with SARS-CoV-2 nucleoprotein and demonstrated no cross-reaction (<0.05%).

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PRODUCT NAME: **Monoclonal anti-influenza virus type A (nucleoprotein)**

MAb isotypes:

IgG for FA32, FA35, FA38, FA58

IgG1 for FA17, FA52, FA91, FA94, InA108, InA224

IgG2a for F8

IgG2b for InA245

IgG3 for InA180

Applications:

F8 can be used in immunocytochemistry. F8 inhibits viral reproduction after fatty acid acylation.

InA108 and InA245 detect influenza A nucleoprotein in Western blotting.

MAbs are working in ELISA.

Recommended pairs for influenza A nucleoprotein detection:

Capture – Detection	**Lateral flow** (gold nanoparticles for detection)	**Sandwich immunoassay**
FA35 – FA17	+	+
FA52 – FA17	+	+
FA32 – FA17	+	+
FA38 – FA17	+	+
FA94 – FA17	+	+
FA58 – FA17	+	+
FA91 – FA17	+	+
InA108 – InA245		+
InA224 – InA245		+

Purification:

Protein A chromatography for FA17, FA32, FA35, FA38, FA52, FA58, FA91, FA94, InA108, InA180, InA224, InA245

Protein G chromatography for F8

Presentation:

PBS, pH 7.4, 0.09 % sodium azide (NaN_3) for FA17, FA32, FA35, FA38, FA52, FA58, FA91, FA94, F8, InA108, InA224, InA245

50 mM sodium citrate, 150 mM NaCl, pH 6.0, 0,09 % azide (NaN_3) for InA180

Storage:

+4 °C (+2 … +8 °C allowed)

Material safety note:

This product is sold **for research or further manufacturing use only**. Standard Laboratory Practices should be followed when handling this material.

Product contains sodium azide as a preservative. Although the amount of sodium azide is very small appropriate care must be taken when handling this product.

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