

CATALOGUE #: 3IN5

PRODUCT NAME: Monoclonal mouse 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 MAb 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.

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

MAbs InA108 and InA245 detect influenza A nucleoprotein in Western blotting.

All 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 (NaN₃) 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 (NaN₃) 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.