Medix Biochemica

Product specification
ANTIBODY
2026-11-19

Anti-Metapneumovirus 14901

Product overview

Catalog number	101030
Specificity	Antibody recognizes the matrix protein of human metapneumovirus (hMPV)
Description	Monoclonal mouse antibody, cultured *in vitro* under conditions free from animal-derived components.
Product buffer solution	50 mM Na-citrate, pH 6.0, 0.9 % NaCl, 0.095 % NaN_3 as a preservative
Shelf life and storage	4 years from manufacturing at 2–8 °C
Subclass	Mouse IgG_{2a}
Analyte description	Human metapneumovirus (hMPV) is an enveloped respiratory virus belonging to the family Pneumoviridae. hMPV can cause respiratory tract infections, with severe disease particularly associated with vulnerable populations including young children, older adults and immunocompromised individuals. The matrix (M) protein is a structural component of the virus and plays an important role in virion assembly and budding. During virus assembly, the matrix protein associates with viral components at the host-cell membrane and contributes to the formation of new virus particles.
Product appearance	Liquid
Product concentration	≥1.0 mg/ml
Immunoreactivity	80–120 % compared to the reference sample in an FIA test
Purity	≥ 90 %

Kinetic parameters

Association rate constant	3.2×10^4 1/Ms
Dissociation rate constant	1.5×10^{-4} 1/s
Affinity constant	$K_A = 2.1 \times 10^8$ 1/M; $K_D = 4.8 \times 10^{-9}$ M (= 4.8 nM)
Determination method	BLI (Octet R8e)
Determination antigen	Recombinant Human Metapneumovirus Matrix Protein, Beta LifeScience (Cat BLC-01464P)

Oy Medix Biochemica Ab
Klovinpellontie 3,
FI-02180 Espoo, Finland

medix@medixbiochemica.com
www.medixbiochemica.com
VAT reg. no. FI14631532

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Cross-reactivities

Does not recognize Respiratory Syncytial Virus, Influenza A, Influenza B, Adenovirus, Parainfluenza viruses 1, 2, and 3, Avian pneumovirus “Colorado” strain, or Mycoplasma pneumoniae.

Epitope

N/D

Pair recommendations

		DETECTION	
		14901	14902
CAPTURE	14901	-	+
	14902	+	-

Following pairs are especially recommended for the below mentioned assays:
FIA: 14901 (capture) – 14902 (detection)
LF: 14902 (membrane) – 14901 (particles)

Please note that pair recommendations are based on results obtained by our laboratory. Equally good results may be obtained using other pairs and therefore these recommendations are only indicative.

Platforms tested

FIA, LF

Antigens tested

N/D

Product stability

TEMPERATURE, TIME	RESULT
-70 °C, 21 days	OK
-20 °C, 21 days	OK
+4 °C, 21 days	OK
+35 °C, 21 days	OK. Charge alteration
+45 °C, 7 days	OK. Charge alteration

Stability testing is performed in the product buffer to see whether different temperatures affect the antigen binding, charge or composition of the antibody.

Miscellaneous

This clone is originally identified as Product Code V4821 from ViroStat Inc.

Antibodies may show precipitation after prolonged storage or repeated vial opening. Any resulting precipitation can be removed by filtration through a 0.2 µm filter without affecting antibody activity.

Store antibodies at the temperature specified for the product. Antibodies are stable until the expiry date when stored unopened at the specified temperature. Repeated opening of the vial should be avoided. If the specified storage temperature is frozen (e.g. –20 °C), repeated freeze–thaw cycles should be avoided.

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