Medix Biochemica

Product specification
ANTIBODY
2022-11-10

Anti-hCoV OC43 3504 SPTN-5

Product overview

Catalog number	100531
Specificity	Antibody recognizes human coronaviruses OC43 nucleoprotein and HKU1
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	18 months from manufacturing at 2–8 °C
Subclass	IgG_1
Analyte description	Human coronavirus OC43 (hCoV-OC43) is an enveloped, positive-stranded RNA virus. HCoV-OC43 causes a significant fraction of upper respiratory tract infections, especially common colds.

Parameters tested on each lot

Product appearance	Liquid, may turn slightly opaque during storage
Product concentration	5.0 mg/ml (+/- 10 %)
Immunoreactivity	80–120 % compared to the reference sample in an FIA test
IEF Profile	6.1–7.9
Purity	≥ 95 %

Kinetic parameters

Association rate constant	Not Determined (N/D)
Dissociation rate constant	N/D
Affinity constant	N/D
Determination method	-
Determination antigen	-

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Cross-reactivities

Does not recognize human coronaviruses 229E or NL63.
Does not recognize recombinant SARS-CoV or SARS-CoV-2 nucleoprotein.
Others not tested.

Epitope

N/D

Pair recommendations

N/D

Platforms tested

FIA

Antigens tested

Recombinant hCoV OC43 N antigen, Medix Biochemica 610040.

Product stability

TEMPERATURE, TIME	RESULT
-70 °C, 21 days	OK
-20 °C, 21 days	OK
+4 °C, 21 days	OK
+35 °C, 7 days	OK
+35 °C, 21 days	Reduced immunoreactivity
+45 °C, 3 days	Reduced immunoreactivity
+45 °C, 7 days	Reduced immunoreactivity

Stability testing is performed in the product buffer to see whether different temperatures affect the antigen binding, charge or composition of the antibody. Please note that the shelf life given on the first page is based on real time stability testing at 2–8 °C in the product buffer.

Miscellaneous

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References

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