Medix Biochemica

Product specification
ANTIBODY
2026-07-14

Anti-h Myoglobin 7004 SP-5

Product overview

Catalog number	100354
Specificity	Antibody recognizes human myoglobin
Description	Monoclonal mouse antibody, cultured *in vitro* under conditions free from animal-derived components.
Product buffer solution	0.9 % NaCl, 0.095 % NaN_3 as a preservative
Shelf life and storage	36 months from manufacturing at 2–8 °C
Subclass	Mouse IgG_1
Analyte description	Myoglobin is a single-chain globular protein, containing a heme prosthetic group in the center around which the remaining apoprotein folds. It is the primary oxygen-carrying pigment of muscle tissues. Myoglobin is a sensitive marker for muscle injury.

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	5.4–6.1
Purity	≥ 95 %

Kinetic parameters

Association rate constant	Not Determined (N/D)
Dissociation rate constant	N/D
Affinity constant	$K_A = 7 \times 10^9$ 1/M
Determination method	Radioimmunoassay (RIA)
Determination antigen	Myoglobin, Scripps Laboratories (Cat M0714, Lot 783040)

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Cross-reactivities

Hemoglobin < 0.005 % (Sigma, Cat H-7379, Lot 68F-9307)

Epitope

N/D

Pair recommendations

		DETECTION		
		7001	7004	7005
CAPTURE	7001	-	+	+
	7004	+	-	+
	7005	+	+	-

Following pairs are especially recommended for the below mentioned assays:
FIA: 7001 (capture) – 7004 (detection), 7004 – 7005
LF: 7001 (membrane) – 7005 (particles), 7004 – 7001, 7005 – 7004
IT: 7004 – 7005

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, IT, LF

Antigens tested

Recombinant Myoglobin antigen, Medix Biochemica 610030 and native Myoglobin antigen Lee Biosolutions 431-11.

Product stability

TEMPERATURE, TIME	RESULT
-70 °C, 21 days	N/D
-20 °C, 21 days	OK
+4 °C, 21 days	OK
+35 °C, 7 days	OK
+35 °C, 21 days	Minor charge alterations
+45 °C, 3 days	OK
+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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