

## Anti-h Myoglobin 7005 SPTN-5

### Product overview

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<b>Catalog number</b>	100078
<b>Specificity</b>	Antibody recognizes human myoglobin
<b>Description</b>	Monoclonal mouse antibody, cultured <i>in vitro</i> under conditions free from animal-derived components.
<b>Product buffer solution</b>	50 mM Na-citrate, pH 6.5, 0.9 % NaCl, 0.095 % NaN <sub>3</sub> as a preservative
<b>Shelf life and storage</b>	36 months from manufacturing at 2–8 °C
<b>Subclass</b>	IgG <sub>1</sub>
<b>Analyte description</b>	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

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<b>Product appearance</b>	Liquid, may turn slightly opaque during storage
<b>Product concentration</b>	5.0 mg/ml (+/- 10%)
<b>Immunoreactivity</b>	80–120% compared to the reference sample in an FIA test
<b>IEF Profile</b>	5.8–7.3
<b>Purity</b>	≥ 95 %

### Kinetic parameters

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<b>Association rate constant</b>	Not Determined (N/D)
<b>Dissociation rate constant</b>	N/D
<b>Affinity constant</b>	$K_A = 1 \times 10^9$ 1/M
<b>Determination method</b>	Radioimmunoassay (RIA)
<b>Determination antigen</b>	Myoglobin, Scripps Laboratories (Cat M0714, Lot 978264)



#### Legal disclaimer

**Cross-reactivities** Hemoglobin < 0.01% (Sigma, Cat H-7379, Lot 91H9314)

**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.

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	Minor charge alterations

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** -

**References** -



**Legal disclaimer**