

Product specifications

Name	Anti-h Hemoglobin 7202 SPR-5
Specificity	Antibody recognizes human hemoglobin (A ₀ and A ₁ equally well, A ₂ with lower affinity, and A ₃ with very low affinity)
Description	Monoclonal mouse antibody, cultured <i>in vitro</i> under conditions free from animal-derived components.
Product code	100079
Product buffer solution	37 mM citrate, 125 mM phosphate, pH 6.0, 0.095 % NaN ₃ as a preservative
Shelf life and storage	36 months from manufacturing at 2–8 °C
Subclass	IgG ₁
Analyte description	Hemoglobin is the iron-containing metalloprotein in red blood cells. It transports oxygen from the lungs to the body tissues. Deviations from normal values usually indicate abnormalities, such as anemia.

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	6.2–6.7
Purity	≥ 95 %

Kinetic parameters

Association rate constant	Not Determined (N/D)
Dissociation rate constant	N/D
Affinity constant	$K_A = 1 \times 10^{10} \text{ 1/M}$
Determination method	Radioimmunoassay (RIA)
Determination antigen	Hemoglobin, Sigma (Cat H-7379, Lot 68F-9307)

Cross-reactivities

Albumin < 0.01 % (ICN, Cat 82-301, Lot 37)
 Haptoglobin < 0.4 % (Sigma, Cat H-1511, Lot 48F9313)
 Myoglobin < 0.03 % (Chemicon, Cat AG35P, Lot 021287M)
 Transferrin < 0.01 % (Sigma, Cat T-3400, Lot 62H9330)

Does not recognize bovine, sheep, horse or pig hemoglobin.

Epitope

N/D

Pair recommendations

		DETECTION	
		7202	7204
CAPTURE	7202	-	+
	7204	+	-

Following pairs are especially recommended for the below mentioned assays:

LF: 7202 (membrane) – 7204 (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

Native hemoglobin antigen Lee Biosolutions 338-10, and native glycosylated hemoglobin HbA1c Lee Biosolutions 325-09 and 325-10

Product stability

TEMPERATURE, TIME	RESULT
-70 °C, 21 days	N/D
-20 °C, 21 days	OK
+4 °C, 21 days	OK
+30 °C, 21 days	OK
+35 °C, 21 days	OK
+45 °C, 7 days	OK

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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