Medix Biochemica

Product specification
ANTIBODY
2025-12-01

Anti-h Albumin 6501 SPRN-5

Product overview

Catalog number	100749
Specificity	Antibody recognizes human albumin
Description	Monoclonal mouse antibody, cultured *in vitro* under conditions free from animal-derived components.
Product buffer solution	37 mM citrate, 125 mM phosphate, pH 6.0, 0.9 % NaCl, 0.095 % NaN_3 as a preservative
Shelf life and storage	36 months from manufacturing at 2–8 °C
Subclass	IgG_1
Analyte description	Albumin normally constitutes about 60 % of human plasma proteins and is produced in the liver. It is important in regulating blood volume by maintaining oncotic pressure. It also serves as carrier for molecules of low water solubility, including lipid soluble hormones, bile salts, unconjugated bilirubin, free fatty acids, and drugs. Low albumin (hypoalbuminemia) may be caused by liver disease, nephrotic syndrome, burns, protein-losing enteropathy, malabsorption, malnutrition, late pregnancy, genetic variations and malignancy. High albumin (hyperalbuminemia) is almost always caused by dehydration.

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	6.3–7.4
Purity	≥ 95 %

Kinetic parameters

Association rate constant	4.9×10^5 1/Ms
Dissociation rate constant	5.1×10^{-4} 1/s
Affinity constant	$K_A = 9.6 \times 10^8$ 1/M; $K_D = 1.9 \times 10^{-9}$ M (= 1.88 nM)
Determination method	BLI (Octet RED96e)
Determination antigen	Human Serum Albumin Antigen, Native Reagent Grade, Medix Biochemica (Cat GF800)

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Cross-reactivities

AFP < 0.8 % (Aalto Bioreagents, Cat AE 3005, Lot 018)

Epitope

N/D

Pair recommendations

		DETECTION	
		6501	6502
CAPTURE	6501	-	+
	6502	+	-

Following pairs are especially recommended for the below mentioned assays:
LF: 6502 (membrane) – 6501 (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

Albumin (ALB) - Diagnostic Grade, Medix Biochemica (Cat 101-10)

Product stability

TEMPERATURE, TIME	RESULT
+35 °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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