

Product specifications

Name	Anti-h ApoB 2101 SPTN-5
Specificity	Antibody recognizes human apolipoprotein B (ApoB)
Description	Monoclonal mouse antibody, cultured <i>in vitro</i> under conditions free from animal-derived components
Product code	100261
Product buffer solution	50 mM Na-citrate, 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	Apolipoprotein B (ApoB) is the primary apolipoprotein of low-density lipoproteins (LDL or "bad cholesterol"), which is responsible for carrying cholesterol to tissues. Through a mechanism that is not fully understood, high levels of ApoB can lead to plaques that cause vascular disease (atherosclerosis), leading to heart disease. There is considerable evidence that levels of ApoB are a better indicator of heart disease risk than total cholesterol or LDL. However, primarily for practical reasons, cholesterol, and more specifically, LDL cholesterol, remains the primary lipid target and risk factor for atherosclerosis.

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	6.3–7.3
Purity	≥ 95 %

Kinetic parameters

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

Legal disclaimer



Cross-reactivities N/D

Epitope N/D

Pair recommendations N/D

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

Antigens tested N/D

Product stability	TEMPERATURE, TIME	RESULT
	-70 °C, 21 days	OK
	-20 °C, 21 days	OK
	+4 °C, 21 days	OK
	+25 °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 -

References

Multia E, Sirén H, Andersson K, Samuelsson J, Forssén P, Fornstedt T, Öörni K, Jauhiainen M, Riekkola ML. (2017) Thermodynamic and kinetic approaches for evaluation of monoclonal antibody - Lipoprotein interactions. *Anal Biochem.* 518: 25-34.

Gan N, Multia E, Sirén H, Ruuth M, Öörni K, Maier NM, Jauhiainen M, Kemell M, Riekkola ML. (2016) Tailor-made approach for selective isolation and elution of low-density lipoproteins by immunoaffinity sorbent on silica. *Anal Biochem.* 514:12-23.