Medix Biochemica

Product specification
ANTIBODY
2024-10-22

Anti-h Insulin 9350

Product overview

Catalog number	700013
Specificity	Antibody recognizes human insulin
Description	Monoclonal antibody raised against human Insulin. *In vitro* cultured mouse monoclonal antibody.
Product buffer solution	0.1 M PBS, pH 7.4, 0.9 % NaCl, 0.05 % NaN_3 as a preservative
Shelf life and storage	10 years from manufacturing at 2–8 °C
Subclass	IgG_1
Analyte description	Insulin is a peptide hormone produced in the pancreas by the beta cells. It is formed as a precursor molecule preproinsulin which is cleaved into proinsulin and further to mature insulin. Insulin is important for carbohydrate and fat metabolism and its deficiency leads to diabetes mellitus.

Parameters tested on each lot

Product appearance	Liquid
Product concentration	> 1.0 mg/ml
Immunoreactivity	Passed in ELISA when Anti-h Insulin antibody 9350 was used as a detection antibody
IEF Profile	6.8–7.2
Purity	≥ 95 %

Kinetic parameters

Association rate constant	2.7×10^6 1/Ms
Dissociation rate constant	1.5×10^{-5} 1/s
Affinity constant	$K_A = 1.8 \times 10^{11}$ 1/M; $K_D = 7.1 \times 10^{-12}$ (= 0.007 nM)
Determination method	BLI (Octet RED96e)
Determination antigen	Insulin human, Sigma (Cat I0908)

Oy Medix Biochemica Ab
Klovinpellontie 3,
FI-02180 Espoo, Finland

medix@medixbiochemica.com
www.medixbiochemica.com
VAT reg. no. FI14631532

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Cross-reactivities	N/D
Epitope	N/D
Pair Recommendations	CAPTURE ANTIBODY: 9351 — DETECTION ANTIBODY: 9350 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	ELISA
Antigens tested	N/D
Product stability	TEMPERATURE, TIME: N/D — RESULT
Miscellaneous	-
References	-

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