

Anti-h Insulin 9351

Product overview

Catalog number	700014
Specificity	Antibody recognizes human insulin
Description	Monoclonal antibody raised against human Insulin. <i>In vitro</i> 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 9351 was used as a capture antibody
IEF Profile	6.8–7.2
Purity	≥ 95 %

Kinetic parameters

Association rate constant	3.1×10^5 1/Ms
Dissociation rate constant	1.7×10^{-4} 1/s
Affinity constant	$K_A = 1.8 \times 10^9$ 1/M; $K_D = 2.0 \times 10^{-9}$ (= 2.01 nM)
Determination method	BLI (Octet RED96e)
Determination antigen	Insulin human, Sigma (Cat I0908)

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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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