

## Product specifications

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Name	Anti-h IgE 8510 SPTN-5
Specificity	Antibody recognizes human immunoglobulin E
Description	Monoclonal mouse antibody, cultured <i>in vitro</i> under conditions free from animal-derived components.
Product code	100429
Product buffer solution	50 mM Na-citrate, pH 6.0, 0.9 % NaCl, 0.095 % NaN <sub>3</sub> as a preservative
Shelf life and storage	24 months from manufacturing at 2–8 °C
Subclass	IgG <sub>1</sub>
Analyte description	Immunoglobulin E (IgE) is a class of antibody that has only been found in mammals. It plays an important role in allergy and defence against parasites. Although IgE is typically the least abundant isotype - blood serum IgE levels in a normal individual are only 0.05 % of the IgG concentration - it is capable of triggering the most powerful immune reactions.

## Parameters tested on each lot

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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	5.8–7.0
Purity	≥ 95 %

## Kinetic parameters

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Association rate constant	Not Determined (N/D)
Dissociation rate constant	N/D
Affinity constant	$K_A = 8 \times 10^9$ 1/M
Determination method	SPR analysis (Biacore)
Determination antigen	IgE, Biotest (Cat A101644, Lot 912737)

Cross-reactivities Human IgA <0.05 %  
Human IgG <0.05 %  
Human IgM <0.05 %

Epitope N/D

Pair recommendations

		DETECTION		
		8510	8516	8518
CAPTURE	8510	-	+	+
	8516	-	-	-
	8518	-	-	-

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

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

