

PRODUCT SPECIFICATIONS

Name	Anti-h IgA 8203 SPRN-5
Specificity	Antibody recognizes human immunoglobulin A
Description	Monoclonal mouse antibody, cultured <i>in vitro</i> under conditions free from animal-derived components
Product code	100101
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
Analyte description	Immunoglobulin A (IgA) is an antibody which plays a critical role in mucosal immunity. IgA has two subclasses (IgA1 and IgA2) and can exist in a dimeric form called secretory IgA (sIgA). In its secretory form, IgA is the main immunoglobulin found in mucous secretions, including tears, saliva, colostrum and secretions from the genito-urinary tract, gastrointestinal tract, prostate and respiratory epithelium. It is also found in small amounts in blood. The secretory component of sIgA protects the immunoglobulin from the being degraded by proteolytic enzymes, thus sIgA can survive in the harsh gastrointestinal tract environment.

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	6.8 - 7.7
Purity	≥ 95 %

PARAMETERS DETERMINED DURING PRODUCT DEVELOPMENT

Subclass	IgG ₁
Association rate constant	Not Determined (N/D)
Dissociation rate constant	N/D
Affinity constant	3 x 10 ⁹ l/mol
Determination method	Radioimmunoassay (RIA)
Determination antigen	IgA, Scripps Laboratories (Cat I2224, Lot 127283)

Legal disclaimer

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Cross-reactivities

Human IgA (secretory)	107 % (DAKO, Cat X594, Lot 0692)
Human IgA (myeloma)	135 % (Scripps, Cat I0124, Lot 795283)
Human IgA ₁ (myeloma)	145 % (Chemicon, Cat AG500, Lot 150BDS)
Human IgA ₂ (myeloma)	91 % (Chemicon, Cat AG501, Lot 322BDS)
Human IgA ₁ (myeloma)	104 % (Bioscience, Cat A50165H, Lot 9K3203)
Human IgA ₂ (myeloma)	200 % (Bioscience, Cat A50160H, Lot 392)
Human IgA α-chain	138 % (Chemicon, Cat AG701, Lot 110386)
Human IgG	< 0.3 % (Chemicon, Cat AG711, Lot 203PCB)
Human IgG	< 0.3 % (Scripps, Cat I1424, Lot 484183)
Human IgM (plasma)	2.6 % (Scripps, Cat I1124, Lot 794283)
Human IgM (Waldenström's macroglobulinaemia)	< 0.3 % (DAKO, Cat X595, Lot 0792J)

Epitope

N/D

Pair recommendations
CAPTURE ANTIBODY
DETECTION ANTIBODY

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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.

Product stability
TEMPERATURE, TIME
RESULT

-70 °C, 21 days

OK

-20 °C, 21 days

OK

+4 °C, 21 days

OK

+25 °C, 21days

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

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References

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